BONNEY Quality Tools ... FOR ALL MARKETS

CATALOG 60

BONNEY FORGE & TOOL WORKS -- ALLIANCE, OHIO

THE FACTORY WHERE "QUALITY" IS MANUFACTURED



MODERN

During the past 80 years, Bonney has made great strides in keeping ahead of the industry with new ideas and top quality tools. Now, with this new and modern plant in Alliance, Ohio, and the finest production facilities, Bonney can boast of having achieved the "ultimate" in tool manufacturing.

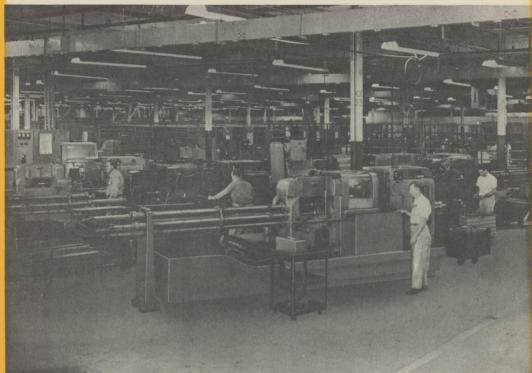
REQUESTS FOR SPECIAL TOOLS

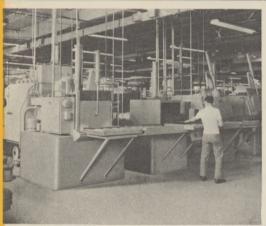
We welcome any request for special tools. Our Engineering and Production Departments are equipped to handle all requests of this type. Bonney has a tool for every job in its complete line of over 2800 items. Mechanics and servicemen depend on Bonney for tools that are made with their interest in mind. Many "special" tools are produced in addition to the standard line.

MODERN FACILITIES FOR BETTER PRODUCTION



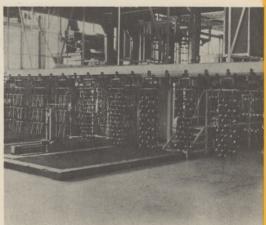
Below are pictured a few of the automatic turning machines found in the Machine Department. Most prominent of these are the Multiple Spindle Bar Turning machines which are used for producing socket wrench blanks, ratchet parts, and other items which require close tolerances.





Here we see a row of semi-automatic, atmospheric-controlled heat treating furnaces of the latest design. Each tool that passes through this Department receives individual attention as to the specific type of job it is destined to perform for the user.

In the photo on the right, we see the completely automatic plating machine which cleans and plates the tools in an uninterrupted sequence. The chrome-nickel plating process was first introduced by Bonney and has been recognized by the industry as one of the outstanding contributions in tool manufacturing.





NUMBERING SYSTEM - SOCKETS, WRENCHES, ETC.

The following description fully outlines the Bonney coding system for part numbers.

The Bon-E-Con (second line of tools) coding system is the same as for Bonney tool with the addition of the prefix "Z."

BONNEY SOCKETS

V—Denotes 1/4" Sq. Drive Tools (except refrigeration)

T—Denotes 3/8" Sq. Drive Tools

A— " 1/2" " 3/4" R-

66 L-Denotes Long

Universal Note: Unless one of the letters below is used, opening is Double Hexagon (12 point).

H—Denotes Hexagon (6 point) opening.

S—Denotes Square (8 point) opening. The numbers following the code letters for type of tool are equal to the size across flats in 32nds of an inch.

Examples:

A20-1/2" Drive, 12 Point

5/8 opening 20/32 = 5/8 AH20—1/2" Drive, 6 Point 5/8 opening 20/32 = 5/8

T20—3/8" Drive, 12 Point 5/8 opening 20/32 = 5/8

TH20—3/8" Drive, 6 Point 5/8 opening 20/32 = 5/8 AS20—1/2" Drive, 8 Point

5/8 opening 20/32 = 5/8

SOCKET ATTACHMENTS

All attachments carry the drive size identification letter as used for sockets listed above.

V—1/4" Sq. Drive T—3/8" " A—1/2" "

R—3/4" X— 1" 64

EXTENSIONS

All extensions are in the 602-617 group. The last two (2) numbers give the length. Examples:

V606 1/4" Sq. Drive, 6" long T612 3/8" Sq. Drive, 12" long

EXTENSIONS

X29—X30 exceptions to the above rule. "X" indicates one inch drive but numbers 29 and 30 have no bearing on actual length.

Wobble Drive Extension (AT) 3/8" drive series 4-5-31

OTHER ATTACHMENTS

 Ratchets (V-T-A-R-X)
 Ratchet Adaptors 4206-4211-4213-4215 4216-4217-4298-4299

(All Drive Sizes) 3. Hinge Handle (V-T-A-R) 1/4" to 3/4" Drive Sizes

Series: 720-722-724
4. Sliding "T" Handle (V-T-A-R)
1/4" to 3/4" Drive Sizes
Series: 730

5. Speeder Handle (T-A) 3/8" and 1/2" Drives Series: 740-742-744 6. Universal Joint (A-R) 1/2" and 3/4" Drives

Series: 760

7. Universal Sockets (TU) 3/8" Drive "Universal" Series: 12-24, 120-200 8. Cross Bar (V-T-A-R-X)

1/4"-3/8"-1/2"-3/4" Drives

Series: 775

1" Drive Series: 31 (X31)

9. Screw Driver Handle (V-T) 1/4"-3/8" Drive Series: 780

10. Screw Driver Handle (Hinge) (V)

1/4" Drive Series: 782 11. Screw Driver Attachment (T) 3/8" Drive Series: 34

12. Drag Link Sockets (T) 3/8" Drive Series: 27 (A) 1/2" Drive Series: 785-786-787

13. Crowfeet Attachments (VF-TC-TF-AC-AF) 1/4"-3/8" and 1/2" Drive F = Box Type

C = Open EndWRENCHES

E—Open End Type

The numbers following the code letters designate the opening of the tool in 32nds of an inch. Where two (2) openings are involved the smaller one always comes first.

Examples:

E1214—End Wrench $12/32 \times 14/32 = 3/8" \times 7/16"$

Combination Wrenches-

1100 Series

Box End Wrenches—2800 Series

Service Wrenches-

1200 & 1900 Series INDUSTRIAL WRENCHES

All industrial tools are coded by number only without prefix.

Box Wrenches (Striking Face) Series: 8800-8817 Structural Wrenches (Box)

Series: 8900-8916

Construction Wrenches (O.E.) Series: 200-212

Structural Wrenches (Box) Series: 900-912

Check-Nut Wrenches (Single Head)
Series: 600-610
Check-Nut Wrenches

(Double Head)

Series: 623-640 Set Screw Wrenches (Double Head) 525-543

"T" Handle Wrenches (4 and 6 Pt.)

Series: 960-978 Offset Handle Wrenches (4 and 6 Pt.)

Series: 261-278 Pin Spanner Wrenches Series: 450-468

STANDARD BOLT, NUT & SCREW SIZES-MATCHING OPENINGS



Here is a quick reference chart showing the various openings of wrenches and sockets and the standard bolt heads, screw heads and nuts they fit. Measurements are given in inches.

-	NAME OF THE PARTY									
	1		UTS			OLTS AND		3		
(Thread Dia. of Bolt, Nut or Screw	Finished Hex. Castle, Hex. Slotted, Hex. Jam	Reg. Square, Hex. Jam, Semi-finished Hex. Slotted	Machine Screw & Stove Bolt Nuts	Hex. Cap Screws	Heavy Bolts: Finished Hex. & Semi- finished Hex.		Set Screws: Square		
Ī	#0&1			5/32						
Ī	#2&3			3/16						
Ī	#4			1/4				1/4		
Ī	#5&6			5/16				5/16		
Ī	#8			11/32						
Ī	#10			3/8			9/32	3/16		
Ī	#12	1/4		7/16	1/4			7/32		
	1/4"	7/16	7/16	7/16	†3/8-7/16		3/8	1/4		
I	5/16"	1/2	9/16	9/16	1/2		1/2	5/16		
	3/8"	9/16	5/8	5/8	9/16		9/16	3/8		
	7/16"	11/16	3/4		5/8		5/8	7/16		
	1/2"	3/4	13/16		3/4	7/8	3/4	1/2		
	9/16"	7/8	7/8		13/16			9/16		
	5/8"	15/16	1		15/16	1-1/16	15/16	5/8		
	3/4"	1-1/8	1-1/8		1-1/8	1-1/4	1-1/8	3/4		
	7/8"	1-5/16	1-5/16		1-5/16	1-7/16	1-5/16	7/8		
	1"	1-1/2	1-1/2		1-1/2	1-5/8	1-1/2	1		
	1-1/8"	1-11/16	1-11/16		1-11/16	1-13/16	1-11/16	1-1/8		
	1-1/4"	1-7/8	1-7/8		1-7/8	2	1-7/8	1-1/4		
	1-3/8"	2-1/16	2-1/16		2-1/16	2-3/16		1-3/8		
1	1-1/2"	2-1/4	2-1/4		2-1/4	2-3/8		1-1/2		
	1-5/8"	2-7/16	2-7/16		2-7/16	2-9/16				
	1-3/4"	2-5/8	2-5/8		2-5/8	2-3/4				
	1-7/8"	2-13/16	2-13/16		2-13/16	2-15/16				
	2"	3	3		3	3-1/8				
	2-1/4"	3-3/8	3-3/8		3-3/8	3-1/2				
	2-1/2"	3-3/4	3-3/4		3-3/4	3-7/8				
	2-3/4"	4-1/8	4-1/8		4-1/8	4-1/4				
	3″	4-1/2	4-1/2		4-1/2	4-5/8				
	4 7	0.0 0	3 (3	~	D 1. TT		~ **			

⁴⁻ and 8-Point Sockets are used on Square Bolt Heads, Nuts and Screw Heads.
6- and 12-Point Sockets are used on Hexagon Bolt Heads, Nuts and Screw Heads.
†Regular Square Bolts Only.



ALPHABETICAL INDEX BONNEY TOOLS

	Sec.	Pg.		Sec.	Pg.
Adaptors	4	-	Double Offset Box	0	
1/4" Drive	1	5	Wrenches		7-8
3/8" Drive	1	12 18	Drag Link Sockets		12+18
½" Drive ¾" Drive	1	21	Electrical Wrenches	. 2	3
1" Drive	1	23	Extra Deep Sockets	4	0
Adjustable Wrenches		15	1/4" Drive	. 1	2
Adjustable Wood	_	10	³ / ₈ " Drive ¹ / ₂ " Drive	. 1	15
File Handle	7	2	% Drive	1	20
Allen Keys (Set N5R)		15	Extra-Small Box Wrenches		8
Attachments for Sockets		1-23	Extractors, Screw, Ser. Set		4
(See Socket Attachments)	_		Feeler Gauges		2-3
Body & Fender Tools		1-3	Files and Handles		1-2
Boxes, Tool		1-2	Files & Holders, Body &	- 4	1-4
Box Wrenches			Fender Fender	. 8	2
15° Angle	2	9	Flare Nut Wrenches	2	13
Carbon		2-7	Flaring Tool		1
Combination			Foot Rule		3
Box & Open End		10-11	Causes Fooler	10	2-3
Double Offset	2	7-8	Gauges, Feeler	10	2-3 1-3
Extra Small	12	8+12	Gear Pullers Hack Saw and Blades		3
Heavy Duty Ind.	19	1-8 10		- 1	3
Long, One End Offset Single Hexagon	9	9	Hammers Pall Pain	C	3
Slotted	$\frac{2}{2}$	14	Ball Pein Body and Fender	6	3
Striking Face		1	Bumping Hammers		3
Brake Spring Plier	10	î	Claw		3
Brake Tools		14	Dinging Hammer		3
Bushing Driver Set	10	1	Cross Pein Hammer	6	3
"C" Clamps	14	î	Pick Hammer	. 8	3
Cabinets	18	3-4	Rubber Mallet	6	3
Camber Wrenches (N8)	16	15	Soft Face	6	3
Carbon Scraper	10	5	Tire and Rim	6	3
Carbon Steel Tools			Upholsterer's Magnetic	. 8	3
Box Wrenches		1	Hub Puller		3
Check Nut Wrenches		5	Holding Tools		5
Construction Wrenches		$\frac{2}{7}$	Ignition Files		2
Offset Socket Wrenches		7 3	Ignition Wrenches		12
Open End Wrs. Sing. Open End Wrs. Dbl.	13	4	Impact Sockets	. 12	2
Pin Spanners	13	8	Kerotest Packing Gland		
Set Screw Wrenches		5	Socket		3
Structural Wrenches		1-2	Knife, Shop		4
"T" Socket Wrenches	13	6	Leatherette Rolls		5-6
Chart of Openings for			Magnetic Holding Tool	10	5
Bolts & Nuts See F	ront	of Catalog	Manifold Wrenches	2	14
Check Nut Wrenches,			Metal Snips	. 5	4
Carbon	13	5	Metric Tool Sets	15	3
Chests (Metal)	18	3	Metric Wrenches Sockets		1-3
Chevrolet Special	9	c	Miniature Wrenches	2	3
Wrenches Chisels		6 1-2	Offset Socket Wrenches,		
Chisels Set	16	18	Carbon	13	7
Combination Box & Open	10	10	Open End Wrenches		
End Wrenches			15° Angle	. 2	2
Streamlined	2	10-11	Adjustable	. 2	15
Compressors, Piston Ring		5	Carbon	. 13	2-5
Connecting Rod Sockets,			Combination	0	10.51
Special	1	18	Box & Open End		10-11
Construction Wrenches,			Electrical		$\frac{3}{12}$
Carbon	13	2	Ignition Long		2
Crow Foot Attachments	1	4	Miniature		3
1/4" Drive 3/8" Drive	1	4 9	Right Angle		4
½" Drive	1	16-17	Service		5-6
Cylinder Head Wrenches	2	10-17	Streamlined		2
Distributor Wrench	2	13	Packing Gland Sockets		3
Dolly Blocks	8	1	Pick-Up Tool	10	5

ALPHABETICAL INDEX BONNEY TOOLS—Continued

BONNEY

	Sec.	Pg.		Sec.	Pg.
Pin Spanners, Carbon		8	Sockets		- 8.
Pinch-Off Tool	. 11	1	1/4" Square Drive	1	2
Pipe Wrenches	. 2	15	3/8" Square Drive	1	6-7-8
Piston Ring Compressors	10	5	1/2" Square Drive	. 1	13-15
Piston Ring Groove		_	3/4" Square Drive	1	20
Cleaner	10	5	1" Square Drive	1	22
Pliers	_		Metric Sockets,		
Battery	. 5	2	3/8" Drive	. 15	2
Bent Needle Nose	5	3	Whitworth Sockets,		
Brake Spring		1	3/8" Drive	. 15	4
Chain Nose		$\frac{4}{2}$	Socket Attachments		
Combination		2	1/4" Square Drive	. 1	4-5
Diagonal, Cutting	_	4	3/8" Square Drive	. 1	9-12
Duck Bill Flat Nose		2	1/2" Square Drive	. 1	16-19
Hog Ring	_	3	3/4" Square Drive	. 1	21
Hose Clamp		3	1" Square Drive	. 1	23
Ignition		4	Socket & Tool Sets		
Lineman's		$\overset{\mathbf{r}}{2}$	1/4" Square Drive	. 16	1-2
Lock Ring	_	2	3/8" Square Drive		2-5
Long Nose		$\bar{3}$	½" Square Drive	16	5-9
Pump	_	4	(Also Assorted Drives)		
Slip Joint	5	2-3	3/4" Square Drive	. 16	10-12
Thin Bent Nose	5	3	1" Square Drive		13
Wiring	. 5	3	Socket Wrenches, Offset,		
Plier Wrenches	. 5	4	Carbon Socket Wrenches "T",	13	7
Point Files	. 7	2	Socket Wrenches "T",		
Power Sockets	. 12	2	Carbon	. 13	6
Power Adaptors	. 12	3	Spanners, Pin, Carbon	13	8
Power Extensions	. 12	3	Spark Plug Sockets	1	12
Pry Bars		2	Special Wrenches	. 2	12-15
Pullers, Gear, Others			Special Tools, (See		
Adaptor	. 9	3	Miscellaneous Section)	10	1-5
Hub	. 9	3	Spinner Wrenches		14
Punches	6	2	Sporlon Valve Socket		2
Punch and Chisel Set	16	18	Spoons, Body & Fender	8	2
Putty Knife	10	3	Spring Tester	3	2
Ratchets	_ 1	5+11+19	Starter Wrenches	. 2	14
(See Socket Attachments)		21 + 23	Steering Adjustment		
Ratchets, Refrigeration	. 11	1	Wrenches	2	6
Ratchet Plug Adaptors	. 11	3	Structural Wrenches	. 13	1-2
Refrigeration Special Tools	_ 11	1-3	Stud Wrench	1	18
Refrigeration Tool Sets	. 16	20	Superior Packless Valve		
Retainer Pins (Industrial B	rochi	ure)	Wrench	11	1
Right Angle Wrenches	2	4	"T" Socket Wrenches,		
Rim Wrenches	10	1	Carbon	13	6
Roller Cabinets Rolls, Leatherette	. 18	3-4 5-6	Tappet Wrenches	2	4
Rolls, Leatherette	18	5-6	Thread Restorers		4
Screw Drivers	4	2	Tire and Rim Tools		1
Adjusting Clutch Head	4	2	Tool Boxes	18	1-2
Clutch Head Electricians	4	2 2	Torque Wrenches	3	1-5
Noon Tube	4	$\frac{2}{2}$	Torque Attachments	2	14
Neon Tube Offset Screw Drivers	. 4		Transmission Tools	17	1-4
(Set 0672)	16	14	Transmission Display		1 1
Phillips	4	2	Boards	17	4
Round Shank	4	$\frac{1}{2}$	Tube Benders	11	2
Starters, Holding	10	1	Tube Cutter	11	1
Socket Wrench Type	2	14	Valve Stem Sockets	11	3
Square Shank	4	2	Whitworth Wrenches	15	4-5
Screw Starters	10	$\bar{1}$	Whitworth Sockets,		
Service Wrenches	2	5-6	3/8" Drive	15	4
Set Screw Wrenches,			Whitworth Socket &		1
Carbon	. 13	5	Tool Sets	15	6
Shop Knife	. 10	4	Wrench Sets (See Specific	Types)	
Single Head Wrenches	1	1-23	Wrenches, Metric		
			& Whitworth	15	1-2
See Section 10 Page 1 for	info	mmation on al	augod toola		

See Section 19, Page 1, for information on abused tools.

See Section 19, Page 2, for information on pipe threads and machine screws.

See Section 19, Page 3, for errata sheet for any corrections or deletions in catalog pages.



INDEX TOOL SETS

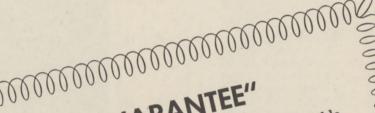
Sec.	Pg.	Sec. Pg.
1/4" Drive VM5B		Tool Sets in Cardboard Box or Plastic Rolls
V50B V51B	1	C45R 1 16 18 C46R
V53B V54B } 16	2	N5R N8 N11R N13R
3/8" Drive TB3R TB5B 16	2	N20R N24R N45R N46R 16 16
TD1B TD2B TD4B	3	N56R N60R
TD11B TD14B TM10B	4	N61R N64R N65R N68R
TWB16	5	N80R 16 18
½" Drive		N93R N98R } 16 18
AA8B		SER 10 1
AA16B 16 AA18B	5	TR7 10 1
AA20B		TR8 10 1
AA24B AA28B LD2B	6	Tool Sets, Body & Fender
AM16B AM20B 16	7	FB3B FB8B F26 16 19
AM28B 16	8	120
AM36B 16	9	Tool Cota
3/" to 3/" Dwisso		Tool Sets, Air Cond. &
3/8" to 3/4" Drive AM44B 16	10	Refrig.
		RF80B
1/4" to 3/4" Drive	11	RF81B \ RF66 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
AM48B 16 AM60B 16	11 12	,
AWIOOD 10	12	Metric Tool
3/4" Drive		Sets
HD1B 16	13	M200R M205R M215R
1" Drive		M215B (15 S
XH1B 16	13	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Tool Sets, Screw Drivers		Whitworth Tool Sets
CL)		W100R)
CP WP W05 0672	14	W105R W115B W120B W130B

YOU'LL FIND THEM HERE **SOCKETS—HANDLES** 1 **ATTACHMENTS** 1/4"-3/8"-1/2"-1" DRIVE **WRENCHES** 2 OPEN END-BOX COMBINATION TORQUE WRENCHES 3 FORMULA—DESCRIPTION **SCREWDRIVERS** 4 WOOD-PLASTIC **PLIERS** 5 TECHNICAL DATA **HAMMERS** 6 CHISELS—PUNCHES HACK SAWS 7 AND FILES **BODY AND** 8 FENDER TOOLS **GEAR PULLERS** 9 AND SEPARATORS TOOLS FOR MISC. 10 **REQUIREMENTS REFRIGERATION** 11 & AIR CONDITIONING **POWER AND** 12 **IMPACT SOCKETS HEAVY DUTY** 13 **WRENCHES** "C" CLAMPS 14 **TECHNICAL DATA** WHITWORTH AND 15 METRIC TOOLS 16 TOOL SETS AUTOMATIC 17 TRANSMISSION TOOLS CABINETS 18 **ROLLS—BOXES TECHNICAL** 19

INFORMATION

Backed by a Factory Guarantee.

Over 80 years of progress has made Bonney a leader in the tool industry. The broad line of tools produced in this plant are backed by a factory guarantee to the user.



"GUARANTEE"

Bonney Tools are made from the finest obtainable steels to meet normal conditions to which the tool would be subjected. Each Bonney Tool is individually inspected before leaving the factory, and is guaranteed against defects in workmanship and/or materials, depending on the work load required. Defective Bonney Tools will be replaced or repaired

Free replacement cannot be made if inspection shows that tools have been used for any purpose free of charge. other than that for which they have been designed, or if they show normal wear.

All Bonney Tools must be returned to the factory in Alliance, Ohio, with charges prepaid, for examination before any adjustment will be made.

BONNEY FORGE AND TOOL WORKS ALLIANCE, OHIO 2400 ROCKHILL ROAD U.S.A.



Highest Quality . . . Alloy Steel

You can actually "feel" the quality in Bonney sockets. Only the finest materials are used to assure long life and accurate performance for the benefit of the ultimate user. Over the years, Bonney has proven their "know how" in producing sockets that fit the job. Pictured below are sockets from 4 point to 12 point available in the Bonney line.



4 Point



6 Point



8 Point



12 Point



REGULAR...

To understand deep and regular sockets we have illustrated each of these. The regular (short) type is used most commonly.

DEEP ...

The deep socket (long) is used where a deep throat is necessary for bolt clearance.

HANDLES AND ATTACHMENTS

In addition to the above sockets offered in all five drives sizes 1/4 - 3/8 - 1/2 - 3/4 and 1 inch square drives, Bonney also offers a complete range of handles and attachments in the same five drive sizes (see page 2 of this section).

IF THE TOOL FITS THE JOB . . .

. . . IT'S A BONNEY TOOL!



Bonney offers a complete line of handles and attachments from 1/4" drive through 1" drive. Below you will find a brief description of a few of these handles and attachments.

DRAG LINK SOCKETS



Designed for special drag link adjustments on many passenger cars and trucks. Made for dependable service and accurate adjustments.

SCREWDRIVER ATTACHMENTS



This screwdriver blade attachment comes in the popular drive sizes. Convenient for hard to reach applications.

WOBBLE DRIVE EXTENSIONS



Designed for work in close quarters, enables the mechanic to obtain a small amount of swivel without the use of a universal joint. This tool does not carry a guarantee because of the unusual shape of the male end making it suitable for light duty work only.

SCREWDRIVER HANDLE



Available in popular sizes for use with many attachments. Provides a "universal" feature.

SPARK PLUG SOCKET

This handy spark plug socket features a spark plug retainer enabling the mechanic to remove and replace spark plugs without the danger of dropping the plug causing serious damage.

ADAPTORS



These adaptors enable the mechanic to use tools on hand with attachments of a different drive size.

CROSS HANDLES

Made of high grade metal for extra strength when using added power for tightening or loosening stubborn bolts and nuts.

CROWFOOT ATTACHMENTS

Bonney Crowfoot wrenches are indispensable to torque wrench adjustments in obtaining specified torque. Designed specifically to perform unusual applications, sturdy construction for better service.



SOCKETS-1/4 INCH SQUARE DRIVE

QUALITY MATERIAL AND WORKMANSHIP

Bonney sockets are made of only the finest select steel incorporated with skilled craftsmanship and modern machinery. All sockets are made to exacting specifications and must meet highest standards in the Industry. Bonney sockets are available in a complete range of drive sizes and openings.

FOR ADDED CONVENIENCE, ALL THREE STYLES OF SOCKETS ARE SHOWN ALONG WITH ALL NECESSARY MEASUREMENTS INDICATED.





Rolt



Technical Data

Socket

Opening	Part	Length	Clearance	End O.D.	Drive . End O.D.	Nose Length	Weight			
Opening	No.	(L)	(D)	(A)	(B)	(E)	Lbs.			
	TWELVE-POINT OPENINGS — REGULAR LENGTH									
3/16	V6	7/8	1/4	19/64	1/2	1/2	.022			
7/32	V7	7/8	9/32	11/32	1/2	1/2	.025			
1/4	V8	7/8	9/32	3/8	1/2	1/2	.025			
9/32	V9	7/8	9/32	13/32	1/2	1/2	.025			
5/16	V10	7/8	9/32	29/64	1/2	1/2	.025			
11/32	V11	7/8	9/32	1/2	4		.028			
3/8	V12	7/8	9/32	17/32			.028			
7/16	V14	7/8	9/32	5/8			.047			
1/2	V16	7/8	21/64	11/16			.050			
Ref.: Fee	d. Spec. C	GG-W-6411	3—Type 1-	-Class 1-	-1/4" Drive.					
	EI	GHT-POINT	OPENIN	GS — REG	ULAR LENG	TH				
1/4	VS8	7/8	9/32	29/64	1/2	1/2	.028			
5/16	VS10	7/8	5/16	9/16			.038			
3/8	VS12	7/8	3/8	21/32			.055			
Ref.: Fe	d. Spec. (GG-W-641]	B—Type 1-	-Class 1-	-1/4" Drive.					
		TWELVE-	POINT OP	ENINGS	— DEEP					
3/16	VL6	2	1/4	19/64	1/2	1-5/8	.034			
7/32	VL7	2	9/32	11/32	1/2	1-5/8	.038			
1/4	VL8	2	9/32	3/8	1/2	1-5/8	.041			
9/32	VL9	2	9/32	27/64	1/2	1-5/8	.044			
5/16	VL10	2	5/16	29/64	1/2	1-5/8	.050			
11/32	VL11	2	11/32	1/2	1/2		.059			
3/8	VL12	2	3/8	17/32	17/32		.066			
7/16	VL14	2	7/16	5/8	5/8		.094			
1/2	VL16	2	1/2	11/16	11/16		.109			
Ref.: Fe	d. Spec. (GG-W-641	B—Type 1-	-Class 2-	-1/4" Drive.					











Opening	Part No.	Length	Diamet Head	ter (O.D.) Drive End	Head Thkns.	Slotted Opening	Weight Lbs.
3/16	VF 6	7/8	3/8	15/32	1/4	1/8	.093
7/32	VF 7	7/8	3/8	15/32	1/4	5/32	.062
1/4	VF 8	7/8	1/2	1/2	1/4	3/16	.109
9/32	VF 9	7/8	1/2	1/2	1/4	7/32	.100
5/16	VF10	7/8	1/2	1/2	1/4	1/4	.096
11/32	VF11	7/8	1/2	1/2	1/4	9/32	.093
3/8	VF12	7/8	9/16	15/32	17/32	9/32	.025
7/16	VF14	1	21/32	15/32	19/32	11/32	.028
1/2	VF16	1-1/8	3/4	15/32	19/32	3/8	.047
9/16	VF18	1-3/16	13/16	15/32	19/32	7/16	.044

Fed. Spec. GGG-W-641B, Type 2, Class 1.

BONNEY CROWFOOT ATTACHMENTS



- Aircraft fittings
- Excellent for tubing fittings
- Attachments for torque wrenches
- Designed for the unusual request
- Complete range of sizes

On the following pages you will find other attachments and handles which round out the Bonney line.



RATCHET — 1/4 INCH SQUARE DRIVE

The 1/4 Inch Drive Bonney Ratchet is made of the finest select steel made to exacting specifications to give long and dependable service for the mechanic and repairman. Length: 5 inches. Weight: .187 lbs.

V701 (WITH REPLACEABLE HEAD V701-9)

Fed. Spec.: GGG-W-641B, Type 6, Class 1. *V707 RATCHET - 1/4 INCH DRIVE(SEALED HEAD)

Positive movement in both the "engage" and "reverse" positions with the convenient thumb tip reversing button. The Pawl action is so designed to divert the load away from the teeth giving a smooth, quiet, positive movement with minimum fatigue. Exhaustive tests have proven satisfactory operation indefinitely, beyond normal work loads without fatigue, failure and without the danger of slippage! (Patent pending.)

V707 — Length: 5 inches. Weight: .187 lbs.

EXTENSIONS — 2 INCH AND 6 INCH. 1/4 INCH SQUARE DRIVE

These Bonney Extensions enable the mechanic to reach into hard to get at places where socket action is desired. Made of the finest grade steel with polished heads finished in nickel chrome.

V602 — Length: 2 inches. Weight: .050 lbs. V606 — Length: 6 inches. Weight: .122 lbs. Fed. Spec.: GGG-W-641B, Type 13, Class 1.

HINGE HANDLE 1/4 INCH SQUARE DRIVE

The V720 Bonney Hinge Handle is designed to allow working at angles where it is necessary to by-pass obstructions. In many cases, a straight Extension cannot be used because of such obstructions. V720 — Length: 5-3/4 inches. Weight: .203 lbs. Fed. Spec.: GGG-W-641B, Type 5.

SCREWDRIVER HANDLE ATTACHMENT — 1/4 INCH SQUARE DRIVE

The V780 Attachment allows the mechanic to "spin tight" sockets when not accessible due to obstructions. This handle can also be used to remove sockets in tight places after initial loosening.

V780 — Length: 6 inches. Weight: .118 lbs. Fed. Spec.: GGG-W-641B, Type 7, Class 3.

SLIDING "T" HANDLE -- 1/4 INCH SQUARE DRIVE

This "T" Handle part no. V730 allows tightening or loosening with socket application using either extreme of the Sliding Handle. This is extremely handy when an Extension cannot be used due to overhead obstructions.

V730 — Length: 4 inches. Weight: .084 lbs. Fed. Spec.: GGG-W-641B, Type 8, Class 1.

ADAPTOR — 1/4 INCH TO 3/8 INCH SQUARE DRIVE

These Adaptors make it possible to use either 3/8" or 1/4" sockets with opposite drive size attachments.

4216 — Female Drive 3/8" — Male Drive 1/4". Weight: .031 lbs. 4217 — Female Drive 1/4" — Male Drive 3/8". Weight: .034 lbs. Fed. Spec.: GGG-W-641B. Type 2, Class 1.

SCREWDRIVER HINGE HANDLE V782

This tool allows the mechanic to work at any angle in hard to reach spots. V782 — Length: 4-3/4 inches. Weight .020 lbs.

DISTRIBUTOR TERMINAL ATTACHMENT— 1/4 INCH SQUARE DRIVE

The V36 Attachment designed for Ford-Chevrolet Distributor and Dashboard.

V36 — Length: 1-3/8 inches. Weight: .038 lbs.

CROSS BAR

Used with Hinge Handle for added force. The V775 Cross Bar is used when added leverage is needed for tightening or loosening nuts and bolts. V775 — Length: 3-1/2 inches. Weight: .025 lbs.

*Notice will be made from factory when available for shipment (V707)

SECTION 1—PAGE 5

V720

V780





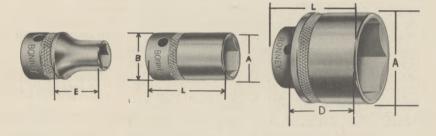
SOCKETS - 3/8 INCH SQUARE DRIVE



The 3/8" square drive sockets shown on the following pages are manufactured from the finest materials available and made to exacting specifications to assure close fit for all applications. All Bonney sockets are nickel chrome plated for added beauty and lasting quality.



T10-12-14







T16 THRU T22

19	N/A		
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1	7		
	が運		

T24 THRU T128

A Miles
TOA TUDU TION

TH24 THRU TH28



TH16 THRU TH22



TH8 THRU TH16

					Tecl	nnical Data		
	Opening	Part No.	Length (L)	Bolt Clearance (D)	Socket End O.D. (A)	Drive End O.D. (B)	Nose Length (E)	Weight Lbs.
		TV	VELVE-PO	INT OPENIN	NGS — REG	ULAR LENG	TH	
I	5/16	T10	1	9/32	29/64	21/32	1/2	.038
1	3/8	T12	1	9/32	17/32	21/32	1/2	.069
	7/16	T14	1	9/32	39/64	21/32	1/2	.044
	1/2	T16	1	21/64	11/16			.050
	9/16	T18	1	21/64	25/32		diament of the section is	.069
	19/32	T19	1	21/64	13/16			.075
	5/8	T20	1	21/64	27/32			.084
	11/16	T22	1	11/32	59/64			.103
	3/4	T24	1-7/32	7/16	1	11/16	11/32	.109
	25/32	T25	1-7/32	7/16	1-1/32	23/32	11/32	.125
	13/16	T26	1-7/32	15/32	1-1/16	3/4	11/32	.125
	7/8	T128	1-9/32	1/2	1-5/32	3/4	11/32	.150
			SIX-POIN	T OPENING	S — REGUL	AR LENGTH	1	
ı	1/4	TH8	1	1/4	3/8	21/32	1/2	.044
	5/16	TH10	1	9/32	29/64	21/32	1/2	.038
	3/8	TH12	1	9/32	17/32	21/32	1/2	.069
II.	7/16	TH14	1	9/32	39/64	21/32	1/2	.044
	1/2	TH16	1	21/64	11/16			.050
II.	9/16	TH18	1	21/64	25/32			.069
II.	5/8	TH20	1	21/64	27/32	<u> </u>		.084
	11/16	TH22	1	11/32	59/64			.103
	3/4	TH24	1-7/32	7/16	1	11/16	11/32	.109
	13/16	TH26	1-7/32	15/32	1-1/16	3/4	11/32	.125
	7/8	TH28	1-9/32	1/2	1-5/32	3/4	11/32	.150
	Ref.: F	ed. Spec.	GGG-W-6	41B—Type	1—Class 1—	-3/8" Drive.		

Both 12 pt. and 6 pt. sockets shown above are made to Bonney specifications with the ultimate use in mind. Attachments for all of the sockets on these two pages are illustrated through pages 11 and 12.

SOCKETS-3/8 INCH SQUARE DRIVE



Shown below are both 4 pt. and 8 pt. sockets made to meet specific demands. Bonney offers this wide selection to satisfy the various applications confronted by the everyday mechanic.

Technical Data

Opening	Part No.	Length (L)	Bolt Clearance (D)	Socket End O.D. (A)	Drive End O.D. (B)	Nose Length (E)	Weight Lbs.		
FOUR-POINT OPENINGS REGULAR LENGTH									
9/32	TS9	1	9/32	17/32	21/32	1/2	.044		
	EIGHT-POINT OPENINGS — REGULAR								
3/8	TS12	1	1/4	11/16			.062		
7/16	TS14	1	9/32	25/32			.078		
1/2	TS16	1	21/64	27/32			.103		
9/16	TS18	1-7/32	21/64	1	11/16	11/32	.141		
5/8	TS20	1-7/32	21/64	1-1/16	3/4	11/32	.159		
Ref.: Fe	ed. Spec	e. GGG-W-64	41B—Type 1	l—Class 1—	-3/8" Drive.				

The 6 pt. deep sockets illustrated below are offered in openings from 3/8" to 7/8" to fit many of the specific jobs and special applications.

Technical Data

SIX-POINT OPENINGS — DEEP										
3/8	T120	1-3/4	3/8	17/32	21/32	1-1/4	.063			
7/16	T140	2	7/16	39/64	21/32	1-1/2	.078			
1/2	T160	2	7/16	11/16			.097			
9/16	T180	2	15/32	25/32			.134			
5/8	T200	2-1/4.	15/32	27/32			.192			
11/16	T220	2-1/2	1/2	59/64			.222			
3/4	T240	2-1/2	1/2	1	Brancondonum		.263			
13/16	T260	2-1/2	1/2	1-1/16			.269			
7/8	T280	2-1/2	9/16	1-5/32			.347			

Shown below are the 12 point deep sockets in the 3/8" drive. These sockets are especially designed for applications where bolts protrude beyond the nut and also where access is difficult with the short series socket. Only the finest materials and handling go into making these sockets dependable and precision fit.

Technical Data

		TWE	VE-POINT	OPENINGS -	- DEEP		
3/8	LT12	1/3-4	3/8	17/32	21/32	1-1/4	.063
7/16	LT14	2	7/16	39/64	21/32	1-1/2	.078
1/2	LT16	2	7/16	11/16			.097
9/16	LT18	2	15/32	25/32			.134
5/8	LT20	2-1/4	15/32	27/32			.192
11/16	LT22	2-1/2	1/2	59/64			.222
3/4	LT24	2-1/2	1/2	1			.263
13/16	LT26	2-1/2	1/2	1-1/16			.269
7/8	LT28	2-1/2	9/16	1-5/32			.347
Ref.: F	ed. Spec.	GGG-W-6	41B—Type	1Class 23	/8" Drive.		







TS18 TS20



T120 THRU T280



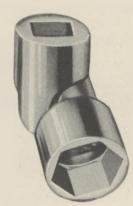


BONNEY FLEXIBLE SOCKETS



Illustrated at the left is the 12 point flexible socket which comes in the popular 3/8 drive in 7 sizes.

TU12 THRU TU24



The 6 point flexible socket also in the 3/8 drive comes in 5 popular sizes.

TU120 THRU TU200

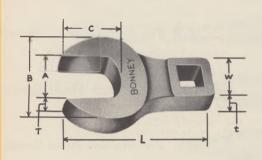
Illustrated on this page are the Bonney Flexible Sockets in both 6 pt. and 12 pt. openings. Many uses will be found for this type of socket wherein access is difficult with the standard straight socket. These sockets are the finest quality and made to do the job well. The drive square is made to fit the many Attachments found in the Bonney 3/8 drive line. Openings from 3/8" to 3/4" assure any mechanic "THE RIGHT TOOL FOR THE JOB."

Technical Data

					illigati watt	94	
Opening	Part No.	Length	Bolt Clearance	Diam Socket End	eter Drive End	Nose Leng th	Weight Lbs.
		5	IX-POINT C	PENINGS			
3/8	TU120	1-23/32	11/32	17/32	11/16	1/4	.094
7/16	TU140	1-23/32	9/32	39/64	11/16	11/32	.100
1/2	TU160	1-23/32	21/64	11/16	11/16		.094
9/16	TU180	1-3/4	21/64	25/32	11/16		.100
5/8	TU200	1-3/4	21/64	27/32	11/16		.103
		TW	ELVE-POINT	OPENING	SS		
3/8	TU12	1-23/32	11/32	17/32	11/16	1/4	.094
7/16	TU14	1-23/32	9/32	39/64	11/16	11/32	.100
1/2	TU16	1-23/32	21/64	11/16	11/16	-	.094
9/16	TU18	1-3/4	21/64	25/32	11/16		.100
5/8	TU20	1-3/4	21/64	27/32	11/16		.103
11/16	TU22	1-49/64	11/32	59/64	11/16	17/32	.105
3/4	TU24	1-7/8	7/16	1	11/16	5/8	.105
Ref.: F	ed. Spec.	GGG-W-641	B, Type 1, C	lass 3.			



OPEN END CROWFOOT ATTACHMENTS



These wrenches are especially useful as Torque Wrench Attachments where limited space is confronted. Each of the wrenches is precision made to give excellent service in all types of applications. They are particularly useful for Flare Nut connections where standard wrenches cannot be used.

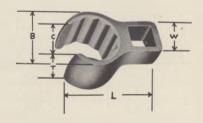
Technical Data

Opening	Part No.	Length (L)	Diame Head (B)	ter Drive End (W)	Thickn Head (T)	ess Drive End (t)	Depth of Opening (C)	Weight Lbs.
3/8	TC12	2-1/16	11/16	3/4	3/8	1/2	13/32	.125
7/16	TC14	2-1/8	7/8	3/4	3/8	1/2	1/2	.141
1/2	TC16	2-1/8	7/8	3/4	3/8	1/2	17/32	.134
9/16	TC18	2-7/32	1-1/8	3/4	3/8	1/2	21/32	.144
5/8	TC20	2-7/32	1-1/8	3/4	3/8	1/2	45/64	.138
11/16	TC22	2-5/16	1-7/16	3/4	1/2	1/2	27/32	.215
3/4	TC24	2-5/16	1-7/16	3/4	1/2	1/2	7/8	.200
13/16	TC26	2-3/8	1-21/32	3/4	1/2	1/2	31/32	.247
7/8	TC28	2-3/8	1-21/32	3/4	1/2	1/2	1	.241



BOX TYPE CROWFOOT ATTACHMENTS

Much like the above Open End Wrenches, these are especially useful for working on tubing fittings and other tight applications. Much of the work in the aircraft field is accomplished with this type attachment. When used with Torque Wrenches, specific torques can be obtained. DO NOT USE FOR WORK REQUIRING HEAVY PULL.



Technical Data

-									
	Opening	Part No.	Length (L)	Diame Head (B)	eter Drive End (W)	Thickness Head (T)	Slotted Opening (C)	Weight Lbs.	
	5/8	TF20	1-3/8	29/32	5/8	3/4	15/32	.081	
	11/16	TF22	1-1/2	1	5/8	3/4	17/32	.078	
	3/4	TF24	1-1/2	1-3/32	5/8	25/32	9/16	.073	
	13/16	TF26	1-5/8	1-11/64	5/8	25/32	5/8	.108	
	7/8	TF28	1-5/8	1-17/64	5/8	13/16	11/16	.125	
	15/16	TF30	1-3/4	1-11/32	5/8	13/16	23/32	.131	
	1	TF32	1-7/8	1-27/64	5/8	27/32	3/4	.133	
	1-1/16	TF34	1-7/8	1-1/2	5/8	27/32	25/32	.141	
	Ref.: Fee	d. Spec. G	GG-W-641B	, Type 2, Cl	ass 1.	,			



SOCKET SCREWDRIVERS - CLUTCH HEAD -



PHILLIPS HEAD - SOCKET HEAD - 3/8 INCH DRIVE

The TW Series Attachments are used for all popular sizes of set screws and cap screws. Made to assure long life, these bits are replaceable if necessary. The TCL Series is used in close clearance work or where force is required. Both the blade and socket are carefully heat treated. Bits are replaceable if needed. The TP Series is used in body work and door frames where considerable force is needed to break loose or reset Phillips type fasteners. Bits are replaceable.



For Socket Head Screws



For Clutch Head Screws



For Phillips Head Screws

SEE SECTION 16 FOR SETS OF THESE TOOLS

		JEE	SECTION 10	FOR SEIS OF	INESE TOO		
	Bit	Part	Overall	Bit	Dia	meter	Weight
	Size	No.	Length	Length	Drive End	Socket End	Lbs.
	1/8	TW4	2	1-1/4	21/32	1/2	.038
	1/8	TW4BT	—	1-1/4			.006
	5/32	TW5	2	1-1/4	21/32	1/2	.038
	5/32	TW5BT		1-1/4			.008
	3/16	TW6	2	1-1/4	21/32	1/2	.062
	3/16	TW6BT		1-1/4			.013
	7/32	TW7	2	1-1/4	21/32	1/2	.066
	7/32	TW7BT		1-1/4			.016
	1/4	TW8	1-31/32	1-1/4	21/32	21/32	.088
2	1/4	TW8BT		1-1/4			.022
	5/16	TW10	2	1-5/16	21/32	21/32	.097
	5/16	TW10BT		1-5/16			.033
	3/8	TW12	2	1-3/8	21/32	21/32	.106
	3/8	TW12BT		1-3/8			.050
	Ref.:	Fed. Spec. GGG	-W-641b, Typ	e 15 Holder.			
	5/32	TCL3	2-1/16	1- 3/8	21/32	21/32	.084
	5/32	TCL3BT		1-3/8			.022
	1/4	TCL5	2-1/16	1-3/8	21/32	21/32	.084
	1/4	TCL5BT		1-3/8			.022
	5/16		2-3/16	1-1/2	21/32	21/32	.091
	5/16	TCL7BT		1-1/2			.028
	Ref.:	Fed. Spec. GGG	-W-641b, Typ	e 14, Class 2,	Form C Bit	, Type 15 Ho	lder.
	#1	TP1	1-15/16	1-1/4	21/32	21/32	.087
	#1	TP1BT		1-1/4			.021
	#2	TP2	1-15/16	1-1/4	21/32	21/32	.084
	#2	TP2BT		1-1/4			.021
	#3	TP3	1-15/16	1-1/4	21/32	21/32	.087
	#3	TP3BT		1-1/4			.021
	#4	TP4	1-15/16	1-1/4	21/32	21/32	.087
ta	#4	TP4BT		1-1/4			.025
		TPC			21/32	Socket Only	.062



TW4 THRU TW12 FOR SOCKET HEAD SCREWS

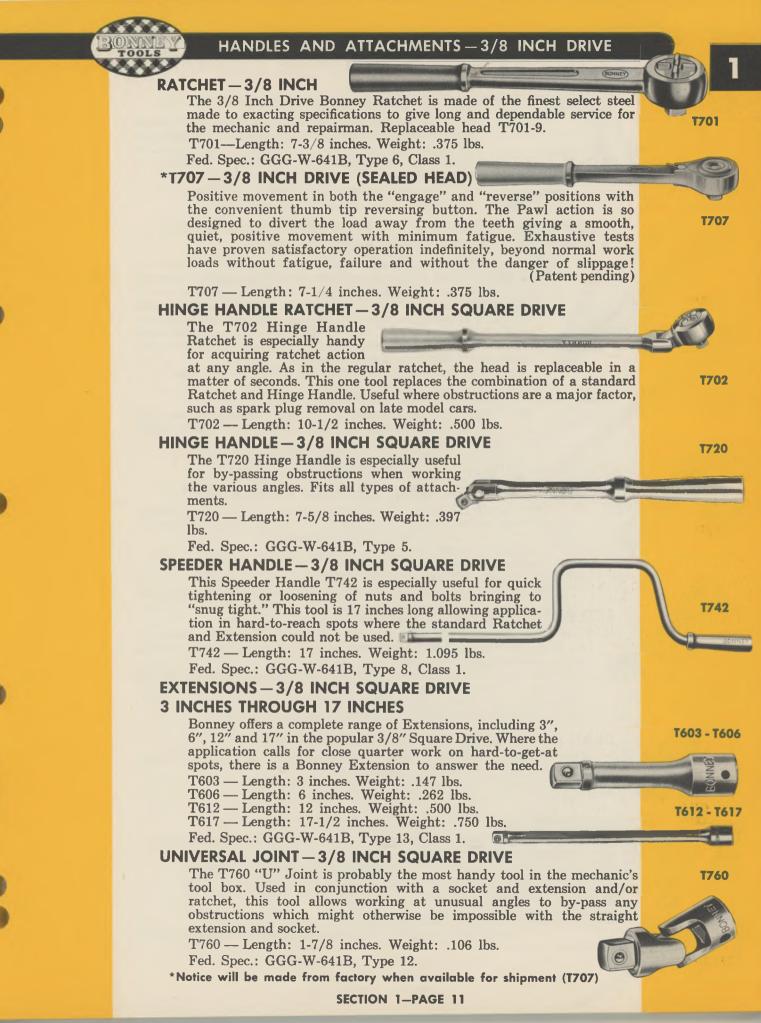
FOR CLUTCH HEAD SCREWS



TPC BONNE

SEE TECHNICAL SECTION (19) FOR INFORMATION ON PHILLIPS SCREWS

Ref.: Fed. Spec. GGG-W-641b, Type 14, Class 2, Form A Bit; Type 15 Holder.



HANDLES AND ATTACHMENTS - 3/8 INCH DRIVE



SLIDING "T" HANDLE — 3/8 INCH SQUARE DRIVE

Used in conjunction with any socket, this handle makes it possible to reach into unusually close quarters to loosen or tighten nuts and bolts. A great deal of force can be exerted when the bar is extended to either extreme.

T730 — Length: 8 inches. Weight: .422 lbs. Fed. Spec.: GGG-W-641B, Type 8, Class 1.

SPARK PLUG SOCKET — 13/16 INCH OPENING, 3/8 INCH SQUARE DRIVE WITH SPARK PLUG RETAINER

The Bonney Spark Plug Socket TLH26R is designed especially to hold a spark plug in place while removing from or inserting into the access hole in the engine. The special insert makes it possible to avoid dropping the spark plug and changing the gap setting or breaking the porcelain coating. Another unique feature of this socket is the 3/4" hex on the top of the socket allowing use of a standard open end, box end or adjustable type wrench when obstructions make this necessary.

TLH26R — Length: 2-1/2 inches. Weight: .281 lbs.

SCREWDRIVER HANDLE ATTACHMENT—

The T780 Attachment allows "spin tight" action for nuts and bolts in hard-to-reach places. Any standard 3/8" drive socket will fit this attachment.

T780 — Length: 5-1/8 inches. Weight: .188 lbs. Fed. Spec.: GGG-W-641b, Type VII, Class 3.

WOBBLE DRIVE EXTENSIONS — 3/8 INCH SQUARE DRIVE

An exclusive with Bonney, these Extensions allow working at angles with standard sockets without the use of "U" Joint or Hinge Handle. Especially handy when obstructions are prominent.

AT4 — Length: 6 inches. Weight: .212 lbs. AT5 — Length: 12 inches. Weight: .400 lbs. AT31 — Length: 3 inches. Weight: .128 lbs.

*This tool is not guaranteed due to the peculiar design of the drive end.

SCREWDRIVER BLADE ATTACHMENT

This tool—part no. T34—is especially useful for screwdriver action in conjunction with a Ratchet or other type of Attachment. Speedy tightening or loosening can be obtained by this means.

*Due to the construction of this tool, it does not carry the regular

T34 — Length: 3-1/4 inches. Weight: .119 lbs.

Fed. Spec.: GGG-W-641b, Type XIV, Class 1, Form D.

DRAG LINK SOCKET — 3/8 INCH SQUARE DRIVE

Used for Drag Link adjustments on passenger cars a d trucks. Will fit all standard 3/8" drive attachments.

T27 — Length: 1-3/32 inches. Weight: .063 lbs.

Fed. Spec.: GGG-W-641b, Type XIV, Class 1, Form A.

ADAPTORS — 3/8 INCHES to 1/2 INCHES —

These Adaptors allow the mechanic to use one drive size Ratchet or Attachment for many different drive size sockets.

4215 — Female Drive 3/8", Male Drive 1/2". Weight: .084 lbs. 4216 — Female Drive 3/8", Male Drive 1/4". Weight: .031 lbs. 4206 — Female Drive 1/2", Male Drive 3/8". Weight: .144 lbs.

CROSS BAR

For added leverage on Attachments. Used with Hinge Handle

T775 — Length: 6 inches. Weight: .128 lbs.

SECTION 1-PAGE 12

T34

TLH26R

T780

AT4

AT5

AT31

T27

4215 4216 4206





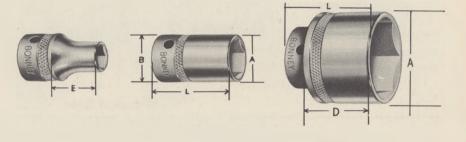


T775

SOCKETS - 1/2 INCH SQUARE DRIVE



Bonney offers a complete line of 1/2 Inch Drive Sockets in openings from 3/8" to 1-1/4". These sockets are made in 6 pt. - 8 pt. and 12 pt. openings for all types of applications, special or standard. Only the finest select alloy steel and finest craftsmanship go into making the Bonney Socket. Dependable service and precision fit are assured when the mechanic asks for Bonney.



Technical Data

Opening	Part No.	Length (L)	Bolt Clearance (D)	Diamete Socket End (A)	r (O.D.) Drive End (B)	Nose Length (E)	Weight Lbs.
	TWE	LVE-POINT	OPENING!	S — REGUL	AR LENG	тн	
3/8	A12	1-1/2	3/8	9/16	7/8	13/16	.106
7/16	A14	1-1/2	3/8	41/64	7/8	13/16	.113
1/2	A16	1-1/2	13/32	47/64	7/8	13/16	.122
17/32	A17	1-1/2	7/16	25/32	7/8	13/16	.122
9/16	A18	1-1/2	15/32	13/16	7/8	13/16	.119
19/32	A19	1-1/2	15/32	27/32	7/8	13/16	.125
5/8	A20	1-1/2	1/2	7/8			.125
21/32	A21	1-1/2	1/2	15/16			.163
11/16	A22	1-1/2	1/2	31/32	0		.163
3/4	A24	1-1/2	19/32	1-1/32			.181
25/32	A25	1-1/2	19/32	1-1/16			.188
13/16	A26	1-1/2	19/32	1-1/8			.225
7/8	A28	1-1/2	5/8	1-3/16			.244
15/16	A30	1-9/16	23/32	1-1/4			.275
31/32	A31	1-5/8	23/32	1-9/32	1-3/16	7/17	.266
1	A32	1-5/8	3/4	1-11/32	1-1/4	7/16	.300
1-1/16	A34	1-3/4	3/4	1-7/16	1-3/16	1/2	.388
1-1/8	A36	1-3/4	3/4	1-1/2	1-1/4	1/2	.397
1-3/16	A38	1-3/4	3/4	1-5/8	1-3/8	1/2	.438
1-1/4	A40	1-3/4	3/4	1-11/16	1-7/16	1/2	.466
Ref.: Fed.	Spec. GO	GG-W-641B	—Type 1—(Class 1—1/2	2" Drive.		



A12 THRU A19



A20 THRU A30



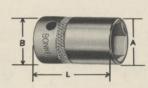
A31 THRU A40

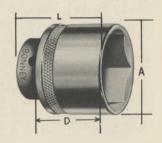
SOCKETS - 1/2 INCH SQUARE DRIVE



Featured on this page are the 6 pt. and 8 pt. Bonney Sockets, which are designed for all types of special applications. Close tolerances assure perfect fit on all Bonney Sockets. With the vast selection of opening sizes and opening styles, you can always find the right tool for the job with Bonney.







Technical Data otor (OD)









AH32 THRU AH40

AS12 THRU AS14

AS16 THRU AS24 AS26



Opening	Part No.	Length (L)	Bolt Clearance (D)	Socket End (A)	Drive End (B)	Nose Length (E)	Weight Lbs.
	SIX	-POINT O	PENINGS -	- REGULAR	LENGTH		
3/8	AH12	1-1/2	3/8	9/16	7/8	13/16	.106
7/16	AH14	1-1/2	3/8	41/64	7/8	13/16	.113
1/2	AH16	1-1/2	13/32	47/64	7/8	13/16	.122
9/16	AH18	1-1/2	15/32	13/16	7/8	13/16	.119
5/8	AH20	1-1/2	1/2	7/8			.125
11/16	AH22	1-1/2	1/2	31/32			.163
3/4	AH24	1-1/2	19/32	1-1/32			.181
13/16	AH26	1-1/2	19/32	1-1/8			.225
7/8	AH28	1-1/2	5/8	1-3/16			.244
15/16	AH30	1-9/16	23/32	1-1/4			.275
1	AH32	1-5/8	3/4	1-11/32	1-1/4	7/16	.300
1-1/16	AH34	1-3/4	3/4	1-7/16	1-3/16	1/2	.388
1-1/8	AH36	1-3/4	3/4	1-1/2	1-1/4	1/2	.397
1-3/16	AH38	1-3/4	3/4	1-5 /8	1-3/8	1/2	.438
1-1/4	AH40	1-3/4	3/4	1-11/16	1-7/16	1/2	.466
Ref.: Fed	. Spec. GC	G-W-641B	—Type 1—	Class 1—1/	2" Drive.		

EIGHT-POINT OPENINGS — REGULAR LENGTH AS12 1-1/29/32 11/16 3/8 7/8 13/16 .120 7/16 **AS14** 1-1/25/16 13/16 7/813/16 .141 1/2 **AS16** 1-1/23/8 7/8 7/8 .125 9/16 **AS18** 1-1/27/16 1-1/321-1/32.225 5/8 **AS20** 1-1/2 7/16 1-1/161-1/16.225 1-1/27/16 11/16 **AS22** 1-3/16 1 - 3/16.292 3/4 **AS24** 1-9/161/2 1-1/4 1-1/4 .356 1-3/8 1-5/8 13/16 **AS26** 1/21-9/327/16 .394 7/8 AS28 1-3/41/2 1-1/21/1-4 1/2 .509 15/16 **AS30** 1-3/41/2 1-5/8 1-3/81/2 .556 AS32 1 1 - 3/49/16 1-11/16 1-7/161/2 .663 Ref.: Fed. Spec. GGG-W-641B—Type 1—Class 1—1/2" Drive.





1/2 INCH SQUARE DRIVE DEEP THROAT SOCKETS

These Bonney sockets are made of high grade alloy steel machined to close tolerances for perfect fit for specific jobs. The deep throat on these sockets allows clearances for long bolts and hard-to-reach applications.

Illustrated above are the two types of Bonney deep sockets offered in 12 pt. openings ranging in size from 1/2" to 1-1/8". These sockets are especially handy where bolts or studs protrude beyond the nut. Also where the standard socket is not long enough to reach into the tight spot.

Technical Data

Opening	Part No.	Length	Bolt Clearance	Diamete e Socket End		Nose Length	Weight Lbs.
		TWELV	E-POINT	OPENINGS	DEEP		
1/2	LD16	3-1/4	5/8	47/64	7/8	3/4	.294
9/16	LD18	3-1/4	5/8	51/64	7/8	3/4	.269
5/8	LD20	3-1/4	1/2	7/8	7/8		.238
11/16	LD22	3-1/4	11/16	15/16	15/16		.269
3/4	LD24	3-1/4	11/16	1-1/32	1-1/32		.333
13/16	LD26T	3-1/4	11/16	1-1/16	1-1/16		.350
7/8	LD28	3-1/4	11/16	1-3/16	1-3/16		.450
7/8	LD28T	3-1/4	11/16	1-9/64	1-3/16	5/8	.425
15/16	LD30	3-1/4	11/16	1-1/4	1-1/4		.500
1	LD32	3-1/4	3/4	1-11/32	1-11/32	Militaria de la compansión de la compans	.575
1	LD32T	3-1/4	3/4	1-9/32	1-11/32	1-5/16	.531
1-1/16	LD34	3-1/4	3/4	1-7/16	1-7/16		.713
1-1/8	LD36	3-1/4	3/4	1-1/2	1-1/2		.750

Ref.: Fed. Spec. GGG-W-641B, Type 1, Class 2.

CROWFOOT - 1/2 INCH SQUARE DRIVE BOX TYPE



AF36 THRU AF64



Technical Data

	Opening	Part No.	Length (L)	Dia Head (B)	meter Drive End (W)	Head Thickness (T)	Slotted Opening (C)	Weight Lbs.
Ī	1-1/8	AF36	2-1/8	1-19/32	27/32	15/16	7/8	.213
ī	1-3/16	AF38	2-1/4	1-21/32	27/32	15/16	59/64	.209
_	1-1/4	AF40	2-5/16	1-3/4	27/32	15/16	61/64	.231
Ī	1-5/16	AF42	2-5/16	1-13/16	27/32	15/16	63/64	.231
	1-3/8	AF44	2-3/8	1-29/32	27/32	1	1-5/64	.284
_	1-7/16	AF46	2-1/2	1-31/32	27/32	1	1-5/64	.303
Ī	1-1/2	AF48	2-1/2	2-1/32	27/32	1	1-9/64	.266
Ī	1-9/16	AF50	2-5/8	2-1/8	27/32	1	1-11/64	.338
	1-5/8	AF52	2-5/8	2-3/16	27/32	1	1-1/4	.344
_	1-11/16	AF54	2-3/4	2-9/32	27/32	1-1/16	1-21/64	.413
Ī	1-3/4	AF56	2-7/8	2-11/32	27/32	1-1/16	1-21/64	.406
Ī	1-13/16	AF58	2-7/8	2-7/16	27/32	1-1/16	1-23/64	.375
	1-7/8	AF60	3	2-17/32	27/32	1-1/8	1-25/64	.500
Ī	1-15/16	AF62	3	2-19/32	27/32	1-1/8	1-29/64	.500
1	2	AF64	3-1/8	2-11/16	7/8	1-1/8	1-37/64	.550
	Ref.: Fed	. Spec. (GGG-W-641	b, Type 2,	Class 1.			

CROWFOOT (CAMBER WRENCHES) - 1/2 INCH SQ. DRIVE

The four special Crowfoot Camber Attachments listed below were developed to handle camber adjustments on late model automobiles using 1/2" Square Drive Attachments that provide maximum flexibility to suit the varied conditions encountered.

1609 — Fits late model Pontiac

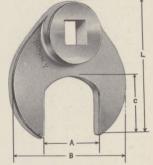
1611 — Fits Ford, Mercury, Lincoln

1612 — Fits Chrysler

1613 — Fits Plymouth, Dodge, DeSoto

1614 and 1615 — Fits other makes and models

*See Section 16, Page 15 for Set #N8, which includes the aforementioned Crowfoot Wrenches.



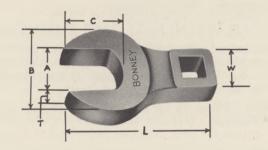
Technical Data



1609 THRU 1615

Opening	Part No.	Length (L)	Diameter (B)	Depth of Opening (C)	Weight Lbs.
1-1/4	1609	2-3/4	2-5/8	1-1/4	.250
1-5/16	1611	2-3/4	2-5/8	1-1/4	.250
1-13/32	1612	2-3/4	2-5/8	1-1/4	.256
1-7/16	1613	2-3/4	2-5/8	1-1/4	.247
1-1/2	1614	2-3/4	2-5/8	1-1/4	.244
1-3/8	1615	2-3/4	2-5 /8	1-1/4	.247





Technical Data

				Tec	nnicai D	uiu	
Opening	Part No.	Length (L)	Diameter Head (B)	(O.D.) Drive End (W)	Thkns. Head (T)	Depth of Opening (C)	Weight Lbs.
15/16	AC30	2-13/16	1-15/16	1	1/2	1-1/16	.375
1	AC32	2-13/16	1-15/16	1	1/2	1-1/8	.366
1-1/16	AC34	2-29/32	2-1/8	1	5/8	1-9/32	.475
1-1/8	AC36	2-29/32	2-1/8	1	5/8	1-5/16	.444
1-3/16	AC38	2-31/32	2-1/4	1	5/8	1-5/16	.506
1-1/4	AC40	2-31/32	2-1/4	1	5/8	1-7/16	.475
1-5/16	AC42	3-19/64	2-1/2	1	5/8	1-9/16	.600
1-3/8	AC44	3-19/64	2-1/2	1	5/8	1-19/32	.563
1-7/16	AC46	3-3/8	2-3/4	1	5/8	1-23/32	.694
1-1/2	AC48	3-3/8	2-3/4	1	5/8	1-3/4	.669
1-9/16	AC50	3-17/32	2-15/16	1	5/8	1-7/8	.750
1-5/8	AC52	3-17/32	2-15/16	1	5/8	1-29/32	.744
1-11/16	AC54	3-17/32	2-15/16	1	5/8	1-15/16	.694
1-3/4	AC56	3-7/8	3-1/4	1	5/8	2-1/16	.919
1-13/16	AC58	3-7/8	3-1/4	1	5/8	2-1/8	.875
1-7/8	AC60	3-7/8	3-1/4	1	5/8	2-5/32	.850
1-15/16	AC62	4	3-9/16	1	5/8	2-5/16	1.100
2	AC64	4	3-9/16	1	5/8	2-11/32	1.069
2-1/16	AC66	4	3-9/16	1	5/8	2-3/8	1.025
2-1/8	AC68	4-1/16	3-15/16	1	5/8	2-1/4	1.150
2-3/16	AC70	4-1/16	3-15/16	1	5/8	2-9/32	1.125
2-1/4	AC72	4-1/16	3-15/16	1	5/8	2-3/8	1.088
2-5/16	AC74	4-5/16	4-3/8	1	5/8	2-19/32	1.500
2-3/8	AC76	4-5/16	4-3/8	1	5/8	2-5/8	1.513
2-7/16	AC78	4-5/16	4-3/8	1	5/8	2-21/32	1.425
2-1/2	AC80	4-5/16	4-3/8	1	5/8	2-23/32	1.375
2-9/16	AC82	4-5/16	4-3/8	1 .	5/8	2-3/4	1.388
2-5/8	AC84	4-5/16	5-1/32	1	5/8	2-25/32	1.825
2-11/16	AC86	4-5/16	5-1/32	1	5/8	2-27/32	1.738
2-3/4	AC88	4-5/16	5-1/32	1	5/8	2-7/8	1.700
2-13/16	AC90	4-5/16	5-1/32	1	5/8	2-29/32	1.650
2-7/8	AC92	4-5/16	5-1/32	1	5/8	2-15/16	1.619
2-15/16	AC94	4-5/16	5-1/32	1	5/8	2-31/32	1.544
3	AC96	4-5/16	5-1/32	1	5/8	3	1.519

AC30 THRU AC96



AC SERIES

HANDLES AND ATTACHMENTS-1/2 INCH SQ. DRIVE





DF A785, A786

A787



F18









TORQUE WRENCH ATTACHMENTS AND CYLINDER HEAD WRENCHES* 2613 THRU 2617

These Attachments, in addition to being used in connection with Torque Wrenches to obtain true torque readings, are also used for Cylinder Head nuts and bolts. The peculiar design of the wrench allows by-passing obstructions on the Cylinder Head itself.

*See Section 2, Page 13 for additional information on the various wrenches.

DRAG LINK SOCKETS -1/2 INCH SQUARE DRIVE

Used for Drag Link adjustments on passenger cars and trucks. Will fit all standard 1/2" drive attachments.

A785 — Length: 1-9/16 inches. Weight: .191 lbs. A786 — Length: 1-9/16 inches. Weight: .175 lbs. A787 — Length: 1-11/16 inches. Weight: .241 lbs. Fed. Spec.: GGG-W-641B, Type 14, Form A, Class 1.

CONNECTING ROD SOCKET FOR FORD— 1/2 INCH SQUARE DRIVE

The F18 is used on Connecting Rod on late model Ford cars. Due to the peculiar design and application required of this socket, it does not carry the regular Bonney guarantee.

F18 — Length: 1-7/32 inches. Weight: .109 lbs.

ADAPTORS — 1/2 INCH SQUARE DRIVE. 1/2 INCH to 3/8 INCH and 1/2 INCH to 3/4 INCH

These Adaptors allow the mechanic to convert the Ratchet or Attachment in a particular drive size to a combination drive size without buying additional tools.

4206 — Female Drive 1/2". Male Drive 3/8". Weight: .144 lbs. 4298 — Female Drive 1/2". Male Drive 3/4". Weight: 1.438 lbs. 4299 — Female Drive 3/4". Male Drive 1/2". Weight: .344 lbs.

STUD REMOVER -1/2 INCH SQUARE DRIVE. HANDLES STUDS FROM 1/4 INCH TO 3/4 INCH IN DIAMETER

Bonney Stud Wrench #2591 is used with the 1/2" Square Drive Handles and Attachments for removing and setting studs. Will handle studs from 1/4" to 3/4" diameter. An eccentrically mounted roller with deep milled edge provides a non-slipping, non-burring, clipping device.

2591 — Length: 2 inches. Weight: .053 lbs.

Fed. Spec.: GGG-S-775, Type 3.

CROSS BAR FOR ADDED LEVERAGE

Used with Hinge Handle for added force. A775 — Length: 8 inches. Weight: .244 lbs.

CONNECTING ROD SOCKET (CADILLAC) — 1/2 INCH SQUARE DRIVE

This tool is especially designed for Connecting Rods on Cadillac cars. Due to the unusual design, this tool does not carry the regular Bonney guarantee.

2571 — Length: 1-3/8 inches. Weight: .134 lbs.

SECTION 1-PAGE 18

HANDLES AND ATTACHMENTS - 1/2 INCH SQ. DRIVE

RATCHETS - 1/2 INCH SQUARE DRIVE

The 1/2 Inch Drive Bonney Ratchet is made of finest select steel drop forged and machined to exacting specifications to give long, dependable service for the mechanic and repairman. Replaceable heads A701-9.

A701 — Length: 10 inches. Weight: 1.062 lbs. A703 — Length: 15 inches. Weight: 1.781 lbs.

*A707-1/2 INCH DRIVE (SEALED HEAD)

Positive movement in both the "engage" and "reverse" positions with the convenient thumb tip reversing button. The Pawl action is so designed to divert the load away from the teeth giving a smooth, quiet, positive movement with minimum fatigue. Exhaustive tests have proven satisfactory operation indefinitely, beyond normal work loads without fatigue, failure and without the danger of slippage!

A707-Length: 10 inches. Weight: 1.094 lbs.

SPEEDER HANDLE - 1/2 INCH SQUARE DRIVE

Two sizes of Speeder Handles are offered so as to cover the wide scope of applications encountered. Both of these handles are especially use-

ful to speed up tightening

or loosening nuts and bolts when used in connection with standard sockets.

A740 — Length: 16 inches. Weight: 1.400 lbs. A744 — Length: 19 inches. Weight: 1.625 lbs. Fed. Spec.: GGG-W-641B, Type 7, Class 1.

HINGE HANDLE - 1/2 INCH SQUARE DRIVE

These Hinge Handles are especially useful for working at angles in close quarters where obstructions are encountered. Fits all standard 1/2" Sockets and Attachments.

A720 — Length: 12-1/2 inches. Weight: 1.431 lbs. A722 — Length: 15-1/2 inches. Weight: 1.650 lbs. A724 — Length: 18-1/2 inches. Weight: 1.825 lbs.

Fed. Spec.: GGG-W-641B, Type 5.

SLIDING "T" HANDLE - 1/2 INCH SQUARE DRIVE

This tool is especially useful in connection with any standard 1/2" Socket allowing close quarter application where an overhead obstruction is encountered. Unusual force can be applied when the bar is extended to either extreme.

A730 — Length: 11 inches. Weight: 1.075 lbs. Fed. Spec.: GGG-W-641B, Type 8, Class 1.

EXTENSIONS - 1/2 INCH SQUARE DRIVE

Offered in lengths from 2" to 20". These extensions "reach" into those tight spots.

A602 — Length: 2 inches. Weight: .181 lbs. A605 — Length: 5 inches. Weight: .384 lbs.

A610 — Length: 10 inches. Weight: .650 lbs.

A620 — Length: 20 inches. Weight: 1.156 lbs. Fed. Spec.: GGG-W-641B, Type 13, Class 1.

UNIVERSAL JOINT - 1/2 INCH SQUARE DRIVE

This tool allows the mechanic to work at peculiar angles using standard 1/2" Drive Sockets and Attachments.

A760 — Length: 2-5/8 inches. Weight: .275 lbs.

Fed. Spec.: GGG-W-641B, Type 12.
*Notice will be made by factory when available for shipment (A707)

A701 A703



(Patent pending.)

A740-744

A707

A/ U/







A730







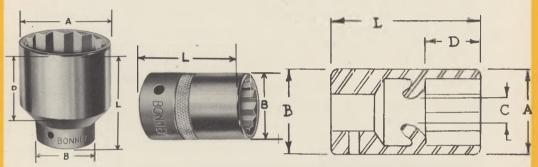


SOCKETS - 3/4 INCH 12 POINT REGULAR & 6 POINT DEEP



HEAVY DUTY SOCKETS

These 3/4" Square Drive Sockets are designed for rugged use in breaking loose or tightening bolts and nuts on tractors and trucks. Top quality alloy steel and finest craftsmanship go into making these sockets dependable and long lasting. Nickel chrome plated for extra protection against rust and corrosion. These sockets are offered in a range of sizes from 7/8" opening through 2-1/4" opening, in both 6 pt. and 12 pt. types. The deep sockets listed at the bottom of the page are used for truck "U" bolts and other applications where the bolts extend through the nut. Precision broached for accurate fit.



Technical Data

			Bolt	Diamete							
Opening	Part	Length	Clearance		Drive End	Weight					
	No.	(L)	(D)	(A)	(B)	Lbs.					
TWELVE-POINT OPENINGS											
7/8	R28	2	41/64	1-5/16	1-5/16	.400					
15/16	R30	2	23/32	1-3/8	1-3/8	.406					
1	R32	2	3/4	1-7/16	1-7/16	.459					
1-1/16	R34	2	13/16	1-9/16	1-9/16	.600					
1-1/8	R36	2	13/16	1-5/8	1-5/8	.688					
1-3/16	R38	2	7/8	1-11/16	1-9/16	.669					
1-1/4	R40	2-3/16	7/8	1-25/32	1-17/32	.775					
1-5/16	R42	2-3/16	15/16	1-7/8	1-5/8	.900					
1-3/8	R44	2-3/16	31/32	1-15/16	1-11/16	.950					
1-7/16	R46	2-3/8	1	2	1-5/8	1.000					
1-1/2	R48	2-3/8	1-1/16	2-1/16	1-11/16	1.075					
1-9/16	R50	2-3/8	1-3/32	2-1/8	1-3/4	1.113					
1-5/8	R52	2-3/8	1-1/8	2-1/4	2	1.369					
1-11/16	R54	2-7/16	1-1/8	2-1/4	1-5/8	1.000					
1-3/4	R56	2-1/2	1-3/8	2-5/16	1-11/16	1.150					
1-13/16	R58	2-3/4	1-5/8	2-3/8	1-3/4	1.400					
1-7/8	R60	2-7/8	1-1/2	2-15/32	1-25/32	1.463					
2	R64	3	1-5/8	2-19/32	1-3/4	1.531					
2-1/16	R66	3-3/16	1-5/8	2-7/8	1-15/16	2.363					
2-1/8	R68	3-1/8	1-5/8	2-7/8	1-15/16	2.200					
2-3/16	R70	3-3/16	1-5/8	3	1-15/16	2.488					
2-1/4	R72	3-1/4	1-3/4	3	1-15/16	2.200					
Ref.: Fed	. Spec. (GGG-W-641	b, Type 1, Clas	ss 1.							
			CIV DOINT OF SPECIAL CONTRACTOR								

	· · · · · · · · · · · · · · · · · · ·			10/1	9
Ī	Ref.: Fe	d. Spec.	GGG-W-6411	o, Type 1,	Class 1.

SIX-POINT OPENINGS									
1 RI	LH32 3-1/2	13/16	1-1/2	1-1/2	.963				
1-1/16 RI	LH34 3-1/2	7/8	1-9/16	1-9/16	1.025				
1-1/8 RI	LH36 3-1/2	7/8	1-5/8	1-5/8	1.075				
1-1/4 RI	LH40 3-1/2	15/16	1-25/32	1-25/32	1.306				
Ref · Fed St	pec GGG-W-64	1h Type 1 Class 2							











HANDLES AND ATTACHMENTS - 3/4 INCH SQ. DRIVE

BONNEY RATCHET — 3/4 INCH SQUARE DRIVE

BONNEY

This heavy duty ratchet incorporates the replaceable head found in other Bonney Ratchets. This makes quick and easy repairs possible in the field.

R701 — Length: 20 inches. Weight: 7.375 lbs. Fed. Spec.: GGG-W-641B, Type 6, Class 1.

REPLACEABLE HEADS

By merely removing the Snap Ring, the head can be removed and replaced in a matter of minutes.

R701-9 — Replaceable Head R701-6 — Snap-Ring

ADAPTORS — 3/4 INCH SQUARE DRIVE. 3/4 INCHES to 1/2 INCHES and 3/4 INCHES to 1 INCH

4211 — Female Drive 3/4". Male Drive 1". Weight: .600 lbs. 4213 — Female Drive 1". Male Drive 3/4". Weight: 1.375 lbs. 4299 — Female Drive 3/4". Male Drive 1/2". Weight: .344 lbs. 4298 — Female Drive 1/2". Male Drive 3/4". Weight: 1.438 lbs.

UNIVERSAL JOINTS — 3/4 INCH SQUARE DRIVE

This Bonney tool allows the mechanic to work at any angle using standard 3/4" Sockets and Attachments. All parts are polished and nickel chrome plated plus exacting heat treated to assure service under rugged conditions.

R760 — Length: 4 inches. Weight: 1 lb. Fed. Spec.: GGG-W-641B, Type 12.

EXTENSIONS — 3/4 INCH SQUARE DRIVE. 4 INCHES to 17 INCHES

Three lengths are offered to enable the mechanic to reach into close quarters on deep applications.

R604 — Length: 4 inches. Weight: .875 lbs. R609 — Length: 8-7/16 inches. Weight: 1.538 lbs. R617 — Length: 17 inches. Weight: 2.655 lbs. Fed. Spec.: GGG-W-641B, Type 13, Class 1.

*DRIVE HEAD, MALE—3/4 INCH SQUARE DRIVE

When this tool is used in conjunction with handle #776 it forms the popular sliding "T" used for close quarter work calling for extra power for tightening or loosening.

R731 — Length: 2-3/8 inches. Weight: .718 lbs.

*FLEXIBLE HEAD—3/4 INCH SQUARE DRIVE

This tool used with the handle #776 forms a hinge handle which allows the mechanic to work at angles and still obtain maximum power. R721 — Length: 5-5/8 inches. Weight: 3.34 lbs.

*HANDLE (USED WITH R731 AND R721)

This handle #776 is used with the drive head #731 to form a sliding "T" or with the flexible head #721 to form a hinge handle.

R776 — Length: 18 inches. Diameter: 7/8 inch. Weight: 3.06 lbs.

*New design—notice will be made by factory when available.

SECTION 1 - PAGE 21

R701



R701-9

R701-6





R760



R604



R721

R776



HEAVY DUTY SOCKETS - 1 INCH DRIVE

These sockets are offered in 12 pt. openings 1" drive made to fit any standard 1" Extension or Attachment. The rugged construction of these sockets allows the mechanic to perform heavy duty work using the correct tool for the job. These sockets are offered in openings from 1-7/16" through 3-1/8".



Technical Data

Opening	Part No.	Length (L)	Bolt Clearance (D)	Diamete Socket End (A)	er (O.D.) Drive End (B)	Weight Lbs.		
TWELVE-POINT OPENINGS								
1-7/16	X46	2-5/16	1	2	1-11/16	.863		
1-1/2	X48	2-3/8	1	2-1/16	1-3/4	.950		
1-5/8	X52	2-1/2	1-1/16	2-1/4	1-3/4	1.144		
1-13/16	X58	3-3/16	1-7/8	2-5/8	1-7/8	1.413		
1-7/8	X60	2-15/16	1-5/8	2-5/8	2-5/16	2.025		
2	X64	3-15/32	2-1/8	2-27/32	1-7/8	2.513		
2-3/16	X70	3-3/16	1-11/16	3	2-1/4	2.563		
2-1/4	X72	3-13/16	2-1/4	3-1/8	2	2.675		
2-5/16	X74	3-7/8	2-1/4	3-3/16	2	2.719		
2-3/8	X76	3-15/16	2-1/4	3-1/4	2	2.944		
2-7/16	X78	4-1/8	2-3/8	3-7/16	2	3.044		
2-1/2	X80	4-5/16	2-5/16	3-5/8	2	3.094		
2-9/16	X82	3-1/2	1-7/8	3-3/8	2-1/4	3.175		
2-5/8	X84	4-1/2	2-1/2	3-3/4	2	3.563		
2-3/4	X88	4-13/16	2-1/2	4	2	4.369		
2-15/16	X94	4-7/8	2-9/16	4-3/16	2	5.250		
3	X96	4-29/32	2-19/32	4-9/32	2	8.250		
3-1/8	X100	4-15/16	2-5/8	4-3/8	2	8.948		
Ref.: Fed.	Spec. GGC	G-W-641b, T	'ype 1, Class	1.				



X46 THRU X100





BONNEY



RATCHETS - 1 INCH SQUARE DRIVE

This rugged Ratchet incorporates the unique Replaceable Head found in all Bonney Ratchets enabling the mechanic to replace worn or defective heads in a matter of minutes.

X701 — Length: 20 inches. Weight: 7.375 lbs. Fed. Spec.: GGG-W-641b, Type 6, Class 1.

* REPLACEABLE HEADS

By merely removing the Snap Ring, the defective head can be removed and replaced quickly and repaired in the field.

X701-9 — Replaceable Head

R701-6 — Snap Ring

ADAPTOR — 1 INCH SQUARE DRIVE. 1 INCH to 3/4 INCH

4213 — Female Drive 1". Male Drive 3/4". Weight: 1.375 lbs.

4211 — Female Drive 3/4". Male Drive 1". Weight: .600 lbs.

*DRIVE HEAD, MALE—1 INCH SQUARE DRIVE

When this tool is used in conjunction with handle #776 it forms the popular sliding "T" used for close quarter work calling for extra power for tightening or loosening.

X731 — Length: 2-13/16 inches. Weight: 1.200 lbs.

*FLEXIBLE HEAD—1 INCH SQUARE DRIVE

This tool used with the handle #776 forms a hinge handle which allows the mechanic to work at angles and still obtain maximum power. X721—Length: 6 inches. Weight: 3.90 lbs.

*HANDLE (USED WITH X731 AND X721)

This handle #776 is used with the drive head #731 to form a sliding "T" or with the flexible head #721 to form a hinge handle.

X776 — Length: 30 inches. Diameter: 1 inch. Weight: 3.95 lbs.

*New design-notice will be made by factory when available.



X701-9





X731





Designed for long, dependable service...

The Bonney "streamlined" wrench is truly an outstanding wrench design. It is light in weight, well balanced and has no sharp edges to hamper its "quality appearance." Made of high grade alloy steel; drop forged, heat treated and nickel-chrome plated under exacting specifications. All openings machined to close tolerances for the best possible fit on all jobs.

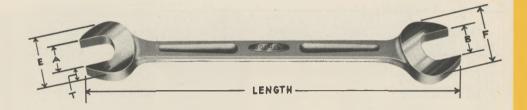
- FAMOUS BONNEY "STREAMLINED" WRENCHES
- COMPLETE RANGE OF SIZES AND TYPES
- SPECIAL WRENCHES FOR VARIOUS ADJUSTMENTS
- BUILT-IN CRAFTSMANSHIP AND QUALITY



Bonney offers a complete line of wrenches for all types of service. All inquiries are answered immediately.



Listed below are open end wrenches ranging in sizes from 1/4" x 5/16" through 1-1/4" x 1-3/8" openings offered in the Bonney Tool Line. These wrenches are of the streamlined design having the center panel for added strength and attractiveness. All of the Bonney wrenches listed herein are manufactured to exacting specifications using top grade alloy steel and the finest craftsmanship available. All wrenches are nickel chrome plated and drop forged.



Technical Data

						Head	
Open		Part	Length		Diameter	Thkns.	Weight
(A)	(B)	No.	(L)	(E)	(F)	(T)	Lbs.
1/4	5/16	E810	4-1/4	9/16	11/16	5/32	.025
5/16	11/32	E1011	4-3/4	11/16	13/16	3/16	.060
5/16	3/8	E1012	4-3/4	11/16		3/16	.060
3/8	7/16	E1214	5-1/4	13/16	15/16	7/32	.075
3/8	$\overline{1/2}$	E1216	5-3/4	15/16	1-1/16	15/64	.113
7/16	1/2	E1416	5-3/4	15/16	1-1/16	15/64	.113
7/16	9/16	E1418	6	15/16	1-9/64	1/4	.134
1/2	9/16	E1618	6-1/4	1-1/16	1-3/16	1/4	.147
1/2	19/32	E1619	6-1/4	1-1/16	1-3/16	1/4	.138
9/16	5/8	E1820	7	1-3/16	1-5/16	17/64	.122
9/16	11/16	E1822	7-3/4	1-5/16	1-7/16	9/32	.263
19/32	25/32	E1925	8-3/16	1-1/4	1-5/8	21/64	.319
5/8	11/16	E2022	7-3/4	1-5/16	1-7/16	9/32	.263
5/8	3/4	E2024	8-3/16	1-1/4	1-5/8	21/64	.444
11/16	3/4	E2224	8-1/2	1-7/16	1-9/16	5/16	.325
3/4	13/16	E2426	9-1/4	1-9/16	1-11/16	11/32	.406
3/4	7/8	E2428	9-5/8	1-9/16	1-13/16	11/32	.488
13/16	7/8	E2628	10	1-11/16	1-13/16	23/64	.538
7/8	15/16	E2830	10-3/4	1-13/16	1-15/16	3/8	.625
7/8	1	E2832	11-1/8	1-13/16	2	13/32	.725
15/16	1	E3032	11-1/2	1-15/16	2-1/16	13/32	.794
1	1-1/8	E3236	12-5/8	2-1 /8	2-5/16	7/16	1.030
1-1/16	1-1/8	E3436	12-5/8	2-1/8	2-5/16	7/16	1.019
1-1/16	1-1/4	E3440	13-5/8	2-1/4	2-5/8	1/2	1.450
1-1/8	1-1/4	E3640	13-5/8	2-1/4	2-5/8	1/2	1.450
1-1/4	1-5/16	E4042	14-3/4	2-17/32	2-7/8	17/32	1.644
1-1/4	1-3/8		14-3/4	2-17/32	2-7/8	17/32	1.828
Def. Ed					ow's Wassah	Daubla	Head

Ref.: Fed. Spec. GGG-W-636a—Type IV—Engineer's Wrench, Double Head, Open End 15°.

See Section 16 for sets of these streamlined wrenches in boxes and plastic rolls.



E810 THRU E4044

MINIATURE & ELECTRICAL WRENCHES OPEN END

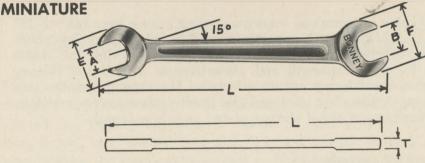




H10 THRU H18



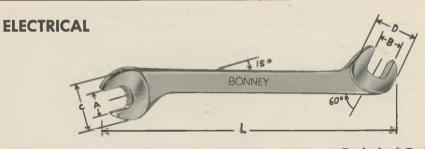
E14 THRU E30



-				Data	
To	e le i	9101	Pet II	PAPP	
16					

Open (A)	ings (B)	Part No.	Length (L)	Head D	Diameter (F)	Head Thickness (T)	Weight Lbs.
3/16	7/32	H10	2-1/2	25/64	29/64	7/64	.013
1/4	9/32	H12	3	33/64	37/64	5/32	.028
5/16	11/32	H14	3-3/4	41/64	23/32	3/16	.047
3/8	7/16	H16	4-3/32	25/32	57/64	7/32	.081
13/32	15/32	H18	4-3/32	25/32	57/64	7/32	.078
D.C. D.	J C C	CC W COC	Т	Clauda D			

Ref.: Fed. Spec. GGG-W-636a, Type 6, Style D.



Technical Data

Oper (A)	nings (B)	Part No.	Length (L)	Head D	Diameter (D)	Head Thkns. (T)	Weight Lbs.			
13/64	15/64	E14	3	1/2	1/2	7/64	.016			
15/64	13/64	E16	3	1/2	1/2	7/64	.019			
7/32	1/4	E18	3	1/2	1/2	7/64	.019			
1/4	7/32	E20	3	1/2	1/2	7/64	.016			
9/32	5/16	E22	3-1/2	5/8	5/8	1/8	.028			
5/16	9/32	E24	3-1/2	5/8	5/8	1/8	.028			
11/32	3/8	E26	4	3/4	3/4	9/64	.041			
3/8	11/32	E28	4	3/4	3/4	9/64	.044			
7/16	1/2	E30	4-1/2	31/32	31/32	5/32	.072			
Ref.: Fe	Ref.: Fed. Spec. GGG-W-636a, Type 6, Class A.									

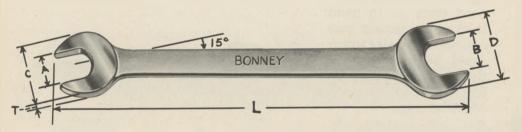
SPECIAL APPLICATIONS — SEE SECTION 16, PAGE 16 FOR SET

Listed above are the Bonney miniature wrench and electrical wrench in various sizes. The miniature wrench is ideal for adjustments on generators, radios, distributors, and other parts that are small and have limited space in which to work. The electrical wrench is designed with a 15 degree angle head on one end and a 60 degree angle head on the other end. These wrenches are especially useful for adjustments on accessories and electrical apparatus where small parts and limited space are confronted. Both of these wrenches are drop forged of high grade alloy steel and nickel chrome plated in the usual "quality" manufacturing process always associated with Bonney.



TAPPET WRENCHES

The Tappet Wrenches shown below cover the complete range which will serve most adjustments on late model cars and trucks. Sizes ranging from $7/16'' \times 17/32''$ through $15/16'' \times 1''$. These wrenches are drop forged and nickel chrome plated. All wrenches are of the pear-shaped head design, extra thin for working in close quarters.

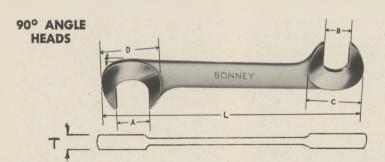


Technical Data

						Head					
0	penings	Part	Length	Head I	Diameter	Thkns.	Welght				
(A)	(B)	No.	(L)	(C)	(D)	(T)	Lbs.				
7/16	17/32	420	9-1/2	1-3/16	1-1/4	5/32	.191				
7/16	1/2	420A	9-1/2	1-3/16	1-1/4	5/32	.188				
1/2	9/16	422	9-1/2	1-3/16	1-1/4	5/32	.184				
5/8	11/16	424	9-1/2	1-7/16	1-1/2	3/16	.219				
5/8	3/4	424A	9-1/2	1-7/16	1-1/2	3/16	.272				
3/4	13/16	425	9-1/2	1-5/8	1-25/32	7/32	.359				
11/16	3/4	425A	9-1/2	1-5/8	1-25/32	7/32	.375				
3/4	7/8	426	9-1/2	1-5/8	1-25/32	7/32	.344				
15/16	1	428	9-1/2	1-15/16	2-1/16	7/32	.409				
Ref.:	Ref.: Fed. Spec. GGG-W-636a, Type 10, Class 1										

OPEN END RIGHT ANGLE WRENCHES

These wrenches are also necessary for refrigeration service work. Mechanics everywhere find these wrenches extremely handy for carburetor work on many makes of cars and trucks. All right angle wrenches are drop forged from high alloy steel and have nickel chrome plated heads.



Technical Data

Openings Part		Length Head Diameter			Head Thkns.	Weight	
(A) ⁻	(B)	No.	(L)	(C)	(D)	(T)	Lbs.
3/8	7/16	2723	4-1/2	15/16	1-5/32	7/32	.119
1/2	9/16	2725B	5-1/2	1-1/4	1-3/8	15/64	.181
5/8	3/4	2729	7-1/2	1-9/16	1-21/32	5/16	.409



OPEN END 30° SERVICE WRENCHES

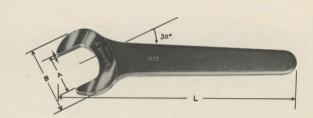


Here we show the line of Bonney Open End Service Wrenches with 30° angle with extra thin heads for working in tight quarters. The range in sizes from 3/4'' to 2-3/8'' offers a tool for every application desired. These wrenches are manufactured of the finest grade alloy steel with polished heads, nickel chrome plated.

The illustrations at the right incorporate pertinent data as to head thickness, opening size and head diameter which could be important in the special applications for which this wrench could be used.

Especially useful in aircraft applications.

1224 THRU 1276



Technical Data

Technical Data											
	D (7 11	Head	Head	*** 1 .						
Opening	Part	Length	Diameter	Thickness	Weight						
(A)	No.	(L)	(B)	(T)	Lbs.						
3/4	1224	6-1/4	1-11/16	1/4	.219						
1-1/8	1224A	6-7/8	1-7/8	1/4	.281						
13/16	1226	6-1/4	1-11/16	1/4	.250						
7/8	1228	6-1/4	1-11/16	1/4	.231						
15/16	1230	6-7/8	1-7/8	1/4	.294						
1	1232	6-7/8	1-7/8	1/4	.294						
1-1/32	1232A	6-1/4	1-11/16	1/4	.250						
1-1/16	1234	6-7/8	1-7/8	1/4	.294						
1-1/8	1236	7	2-1/16	1/4	.325						
1-5/16	1236S	7	2-1/16	1/4	.313						
1-3/16	*1238	7	2-1/16	1/4	.325						
1-1/4	1240	7	2-1/16	1/4	.319						
1-5/16	1242	7-5/8	2-1/2	9/32	.475						
1-3/8	1244	7-5/8	2-1/2	9/32	.472						
1-7/16	1246	7-5/8	2-1/2	9/32	.494						
1-1/2	1248	7-5/8	2-1/2	9/32	.463						
1-9/16	1250	7-5/8	2-5/8	9/32	.500						
1-5/8	1252	7-5/8	2-5/8	9/32	.513						
1-3/4	1256	8-1/2	3-1/8	5/16	.750						
1-13/16	1258	8-1/2	3-1/8	5/16	.738						
1-7/8	1260	8-1/2	3-1/8	5/16	.725						
1-15/16	1262	8-1/2	3-1/8	5/16	.725						
2	1264	8-1/2	3-1/2	5/16	.769						
2-9/16	1264S	8-1/2	3-1/2	5/16	.675						
2-1/16	1266	8-1/2	3-1/2	5/16	.756						
2-1/8	1268	8-1/2	3-1/2	5/16	.744						
2-1/4	1272	8-1/2	3-1/2	5/16	.744						
2-1 2	1272S	8-1/2	3-1/2	5/16	.681						
2-3/8	1276	8-1/2	3-1/2	5/16	.713						
Ref.: Fed	. Spec. GGG-W-63	6a, Type 17, Cl	ass 3.								

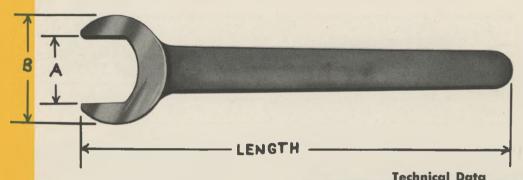
*Also used on caster adjustment on Ford, Lincoln, Mercury.



OPEN END STRAIGHT SERVICE WRENCHES

SINGLE HEAD SERVICE WRENCHES (THIN HEAD)

These wrenches have especially thin heads for use in narrow openings. The following wrenches are exceptionally useful in refrigeration work. Wrench #1964 is used on the Superior packless valve. Wrenches 1252, 1244, 1240, and 1236 are used on Sporlan expansion valves. The thin heads allow access to close quarters, making these wrenches adaptable in aircraft service work.



			le	chnical Data	
Opening (A)	Part No.	Length (L)	Head Diameter (B)	Head Thickness	Weight Lbs.
1	1932	12-1/4	2-1/2	1/4	.694
1-1/16	1934	12-1/4	2-1/2	1/4	.656
1-1/8	1936	12-1/4	2-1/2	1/4	.644
1-1/4	1940	12-1/4	2-1/2	1/4	.625
1-3/8	1944	12-1/4	2-1/2	1/4	.625
1-7/16	1946	12-1/4	2-7/8	9/32	.788
1-1/2	1948	12-1/4	2-7/8	9/32	.756
1-9/16	1950	12-1/4	2-7/8	9/32	.738
1-5/8	1952	12-1/4	2-7/8	9/32	.725
1-11/16	1954	12-1/4	2-7/8	9/32	.731
1-3/4	1956	12-1/4	3-7/16	5/16	.994
1-13/16	1958	12-1/4	3-7/16	5/16	.988
1-7/8	1960	12-1/4	3-7/16	5/16	.956
2	1964	12-1/4	3-7/16	5/16	.950
2-1/16	1966	12-1/4	3-7/16	5/16	.963
2-1/8	1968	12-1/4	3-7/16	5/16	.925
2-3/16	1970	12-1/4	3-7/16	5/16	.925
2-1/4	1972	12-1/4	3-7/16	5/16	.925
Ref.: Fed. S	Spec. GGG-W-	636a, Type 17,	Class 2.		

SECTION 2-PAGE 6

1932 THRU 1972



2804L THRU 2812A (LONG)

Shown below is the complete series of Box End, Double Offset Bonney Wrenches with the long shaft. These wrenches are manufactured from top quality alloy steel, drop forged with nickel chrome plated heads for added beauty and durability. These wrenches are made to exacting specifications to assure perfect fit for all applications.

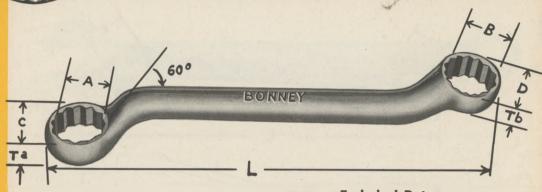


Tec	hn	ical	Data
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Oper (A)	nings (B)	Part No.	Length (L)	Head I	Diameter (D)	(Ta)	(Tb)	Weight Lbs.
3/8	7/16	2804L	8-1/2	9/16	21/32	9/32	5/16	.181
7/16	1/2	2804C	8-3/4	21/32	47/64	5/16	11/32	.244
1/2	9/16	2805L	9	47/64	55/64	5/16	3/8	.300
9/16	5/8	2806L	9-1/2	53/64	29/32	3/8	7/16	.369
5/8	3/4	2807	11	29/32	1-5/64	7/16	1/2	.531
5/8	11/16	2807A	11	29/32	1-5/64	7/16	1/2	.556
11/16	25/32	2808B	11-1/2	1	1-1/8	1/2	9/16	.669
3/4	7/8	2808	11-1/2	1-5/64	1-1/4	1/2	5/8	.775
3/4	13/16	2808F	11-1/2	1-5/64	1-11/64	1/2	9/16	.713
13/16	7/8	2809C	12-1/2	1-11/64	1-1/4	1/2	9/16	.744
7/8	15/16	2809	12-1/2	1-1/4	1-11/32	5/8	21/32	.900
7/8	1	2810C	13-1/2	1-11/32	1-7/16	5/8	11/16	1.106
15/16	1	2810	13-1/2	1-11/64	1-7/16	5/8	11/16	1.100
1	1-1/8	2811	14-1/2	1-7/16	1-19/32	11/16	3/4	1.331
1	1-1/16	2811A	14-1/2	1-7/16	1-19/32	11/16	3/4	1.469
1-1/16	1-1/4	2812B	16-1/2	1-5/8	1-55/64	13/16	7/8	2.000
1-1/16	1-1/8	2812D	16-1/2	1-5/8	1-55/64	13/16	7/8	2.044
1-1/8	1-1/4	2812C	16-1/2	1-5/8	1-55/64	13/16	7/8	1.975
1-1/4	1-3/8	2812	18	1-49/64	2-3/32	7/8	29/32	2.519
1-1/4	1-7/16	2812A	18	1-49/64	2-3/32	7/8	29/32	2.500
Ref.: Fe	ed. Spec. G	GG-W-636a	. Type 1.	Class 2.				

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 2.





				-	-
To	e in a	200	APR III	- 67	ata
	~ 111	6115	·	_	-

SHO	RT SERI	ES						
Ope (A)	nings (B)	Part No.	Length (L)	Head I	Diameter (D)	Head T (Ta)	hickness (Tb)	Weight Lbs.
5/16	3/8	2803	4-1/2	15/32	9/16	3/16	7/32	.050
3/8	7/16	2804	4-3/4	9/16	21/32	1/4	9/32	.069
1/2	9/16	2805	5-3/8	47/64	53/64	21/64	23/64	.125
7/16	1/2	2805A	5-1/8	21/32	47/64	19/64	21/64	.094
9/16	5/8	2806	5-3/4	53/64	29/32	23/64	25/64	.150
5/8	3/4	2806B	6-3/16	29/32	1-5/64	11/32	13/32	.253
5/8	11/16	2806C	6	29/32	1	25/64	27/64	.191
Dof . E	'ad Cmaa	CCC W	626a T-	and Class	n			

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 2.

3/16	13/64	*E40	2-7/8	19/64	21/64	1/8	9/64	.009
3/16	13/64	E40A	2-7/8	19/64	21/64	1/8	9/64	.009
7/32	15/64	*E42	3-1/8	11/32	3/8	1/8	9/64	.019
1/4	9/32	E44	3-3/8	25/64	7/16	9/64	5/32	.031
5/16	11/32	E46	3-3/4	15/32	35/64	5/32	3/16	.041

Ref.: Fed. Spec. GGG-W-636a, Type 1, Class 2, Style B.

SHORT SERIES

These wrenches are drop forged of high alloy steel and undergo the usual fine craftsmanship in finishing and plating which has been a must at Bonney for over 80 years. The box walls are especially thin but have the usual strength found in Bonney wrenches. See Section 16 for sets.

MINIATURE SERIES

These wrenches are designed for working on small parts in limited space, ideal for servicing generator, carburetor and other types of electrical and ignition work. See Section 16 for information on the N80R set of these small wrenches.

(SHORT) 2803 THRU 2806C



E44-46

E40-42



6 PT.

^{*}Denotes 6 Point—Others 12 Point.

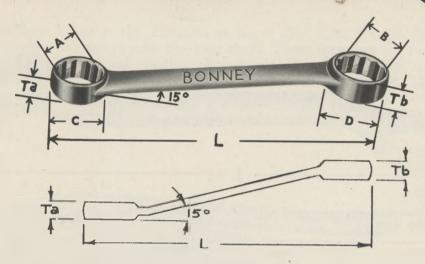




2890H THRU 2892H

> 2890 THRU 2898

(LONG)



DROP FORGED OF ALLOY STEEL. NICKEL CHROME PLATED WITH POLISHED HEADS

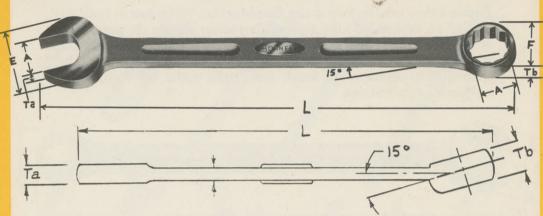
Technical Data

	Ope: (A)	nings (B)	Part No.	Length (L)	Head I	Diameter (D)	Head 7	Thickness (Tb)	Weight Lbs.
	5/16	3/8	2885	4	15/32	9/16	13/64	7/32	.038
	5/16	3/8	*2885H	4	15/32		13/64		.044
	3/8	7/16	2886	4-1/2	9/16	21/32	1/4	9/32	.056
	3/8	7/16	*2886H	4-1/2	9/16	21/32	1/4	9/32	.056
	7/16	1/2	2887	5	21/32	47/64	19/64	21/64	.091
	7/16	1/2	*2887H	5	21/32	47/64	19/64		.097
	1/2	9/16	2888	5-1/2	47/64	53/64	21/64	23/64	.119
	1/2	9/16	*2888H	5-1/2	47/64	53/64	21/64	23/64	.122
	9/16	5/8	2889	6	53/64	29/32	23/64	25/64	.153
	9/16	5/8	*2889H	6	53/64		23/64	25/64	.163
	Ref.: Fe	d. Spec. (GG-W-68	36a, Type	1, Class 1				
	*Denotes	6 Point, o	others 12 l						
	3/8	7/16	2890	7-5/8	9/16	21/32	7/32	9/32	.125
	7/16	1/2	2890C	7-3/4	21/32	47/64	9/32	5/16	.200
	3/8	7/16	*2890H	7-5/8	9/16	21/32	7/32	9/32	.128
	1/2	9/16	2891	8-5/8	47/64	55/64	5/16	3/8	.303
	9/16	5/8	2891C	9-1/4	53/64	29/32	11/32	3/8	.322
	1/2	9/16	*2891H	8-5/8	47/64	21/32	5/16	3/8	.303
	5/8	11/16	2892	9-5/8		1-5/64	3/8	7/16	.403
	5/8	3/4	2892B	9-5/8	29/32	1-5/64	3/8	7/16	.403
	5/8	11/16	*2892H	9-5/8	29/32	1-5/64	3/8	7/16	.406
	3/4	13/16	2893	11	1-5/64	1/1-4	7/16	15/32	.569
	3/4	7/8	2893B	11	1-5/64	1-1/4	7/16	15/32	.563
	7/8	15/16	2894	13-1/4	1-11/32	1-7/16	1/2	17/32	.913
	7/8	1	2894A	13-1/4	1-11/32	1-7/16	1/2	17/32	.881
	15/16	1	2894B	13-1/4	1-11/32	1-7/16	1/2	17/32	.913
	15/16	1-1/16	2895B	14-1/2	1-11/32	1-1/2	1/2	17/32	1.100
	1	1-1/8	2895C	15-1/2	1-1/2	1-19/32	17/32	9/16	1.313
	1-1/16	1-1/4	2895E	15-3/4	1-19/32	1-55/64	19/32	5/8	1.538
	1-1/8	1-3/8	2896	16-1/16	1-19/32	1-15/16	5/8	21/32	1.588
n.	1-1/4	1-7/16	2897	18-1/16	1-49/64	2-1/64	11/16	23/32	1.975
7	1-5/16	1-1/2	2898	19	2-1/16	2-5/16	3/4	25/32	2.575
	1-7/16	1-5/8	2898A	19	2-1/16	2-5/16	3/4	25/32	2.400

Ref.; Fed. Spec. GGG-W-636a, Type 1, Class 1, Style A. *Denotes 6 Point—Others 12 Point.

SECTION 2-PAGE 9





The combination Box End and Open End Wrenches illustrated herein are made of top quality alloy steel drop forged and finished with nickel chrome plating. All of the wrenches in this series are made to exacting specifications and will give long and dependable service. Openings are kept to exacting specifications to assure the usual Bonney quality standards. These wrenches are of the regular length.

_				В	-		
т	20	hn	ica		n	et P	ei -

				reciiii	içai bala		
Opening	Part No.	Length		iameter (F)	Head Th	nickness (Tb)	Weight Lbs.
(A)		(L)	(E)				
1/4	*1158	3	19/32	7/16	5/32	3/16	.025
9/32	*1158A	3	19/32	7/16	5/32	3/16 .	
5/16	1159	3-3/4	25/32	1/2	11/64	7/32	.044
11/32	1159A	3 - 3/4	25/32	1/2	11/64	7/32	.044
3/8	1160	4-1/2	27/32	9/16	3/16	1/4	.063
7/16	1161	5-3/16	29/32	21/32	7/32	5/16	.081
1/2	1162	5-15/16	1-1/16	47/64	1/4	5/16	.128
9/16	1163	6-11/16	1-7/32	53/64	9/32	11/32	.181
5/8	1164	7-7/16	1-11/32	29/32	5/16	3/8	.264
11/16	1165	8-5/16	1-15/32	1	11/32	13/32	.338
3/4	1166	9-3/16	1-9/16	1-5/64	3/8	7/16	.406
7/8	1167	11-1/4	1-13/16	1-1/4	7/16	17/32	.675
13/16	1167A	10-1/4	1-11/16	1-11/64	13/32	31/64	.575
15/16	1168	12-5/16	1-15/16	1-11/32	15/32	39/64	.881
1	1170	13-5/16	2-1/32	1-7/16	1/2	11/16	1.038
1-1/16	1171	15	2-7/32	1-19/32	5/8	25/32	1.706
1-1/8	1172	15	2-7/32	1-19/32	5/8	25/32	1.694
1-1/4	1173	18	2-11/16	1-55/64	11/16	27/32	2.608
1-5/16	1174	18	2-11/16	1-55/64	11/16	27/32	2.675
1-7/16	1176	21-1/4	3-1/16	2-3/16	3/4	15/16	4.175
1-1/2	1178	21-1/4	3-1/16	2-3/16	3/4	15/16	4.000
1-5/8	1180	27	3-1/4	2-5/16	17/32	7/8	3.813
Ref: Fed	d. Spec. G	GG-W-636a-	Type 3.				

*Single Hex (6 Point) Openings; All Others 12 Point Openings.

Wrenches up to one inch opening have streamlined design.

SET INFORMATION

The above listed tools are drop forged of high grade alloy steel. Nickel chrome plated and highly polished. See Section 16 for information on sets including many of the above listed wrenches.

SECTION 2-PAGE 10

1158

1158A 6 PT.





12 PT. 1171 THRU 1180



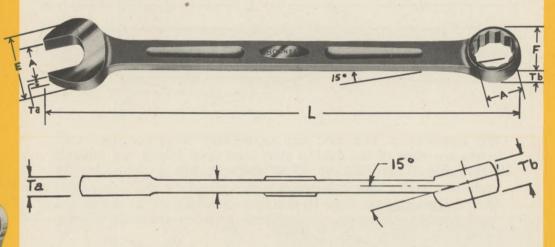
12 PT.

BONNEY

Shown below are the long series Combination Wrenches in both 6 pt. and 12 pt. openings. Like the regular series shown on page 10, all of these wrenches are manufactured to the exacting specifications to meet the usual high quality Bonney standards. The long shaft enables the mechanic to reach into tight spots for loosening or tightening applications.



6 PT.



DROP FORGED OF ALLOY STEEL. NICKEL CHROME PLATED WITH POLISHED HEADS

Technical Data

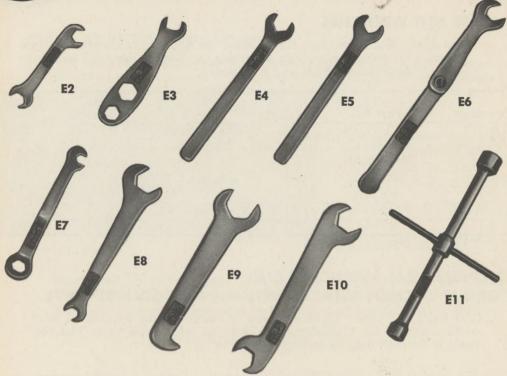
(Opening (A)	Part No.	Length (L)	Head I	Diameter (F)	Head T (Ta)	hickness (Tb)	Weight Lbs.
			TWE	LVE-POINT	OPENINGS			
	3/8	1112	6-17/32	27/32	9/16	3/16	1/4	.078
	7/16	1114	7-3/8	29/32	21/32	7/32	5/16	.119
	1/2	1116	8-7/32	1-1/16	47/64	1/4	5/16	.163
	9/16	1118	9-1/16	1-7/32	63/54	9/32	11/32	.244
	5/8	1120	9-29/32	1-11/32	29/32	5/16	3/8	.316
	11/16	1122	10-3/4	1-15/32	1	11/32	13/32	.419
	3/4	1124	11-19/32	1-9/16	1-5/64	3/8	7/16	.519
			SIX	C-POINT O	PENINGS			
	3/8	1112H	6-17/32	27/32	9/16	3/16	1/4	.078
	7/16	1114H	7-3/8	29/32	21/32	7/32	5/16	.119
	1/2	1116H	8-7/32	1-1/16	47/64	1/4	5/16	.163
	9/16	1118H	9-1/16	1-7/32	53/64	9/32	11/32	.244
Ŋ.	5/8	1120H	9-29/32	1-11/32	29/32	5/16	3/8	.319
	11/16	1122H	10-3/4	1-15/32	1	11/32	13/32	.419
7	3/4	1124H	11-19/32	1-9/16	1-5/64	3/8	7/16	.500
	Ref.: Fe	d. Spec.	GGG-W-636a,	Type 3.				

1112H THRU 1124H

THRU 1124

Note: H indicates Single Hexagon Opening. SIX-POINT OPENINGS
See Section 16 for sets of the above wrenches in metal boxes and plastic rolls.





The special wrenches shown above are for ignition and electrical applications. Some of the shafts are bent to by-pass obstructions found in close quarter adjustments. The E6 Wrench is hinged to allow working at peculiar angles. All of these wrenches are made of the finest quality metal incorporated with top craftsmanship.

Technical Data

Openings	Part No.	Length	Thick- ness	Angle Degree	Weight Lbs.
1/4 x 1/4	E2	2	1/8	22°-60°	.013
17/64 x 9/32 x 11/32	E3	2-1/2	1/8	18°	.024
5/16	E4	3	1/8	30° (Shaft)	.026
5/16	E 5	3-3/8	1/8		.028
5/16	E6		1/8		.062
1/4 x 9/32	E7	2-7/8	1/8	45° (Shaft)	.021
7/32 x 7/16	E8	3-3/8	1/8		.041
1/2	E9	3-3/8	1/8	15° (Shaft)	.053
3/8 x 7/16	E10	3-7/8	1/8	38°	.060
15/64 x 9/32	E11	4	174.4		.070

SPECIAL TYPE WRENCHES





FLARE NUT WRENCHES

The Flare Nut Wrenches listed below in 6 and 12 pt. openings are designed for many applications on tubing, such as oil lines and hydraulic lines in many automobiles and machinery.

Openings	Part No.	Length	Slotted Opening	Head Thickness	Weight Lbs.
3/8-1/2	2612-2612H*	4-3/4	13/64-21/64	9/32-5/16	.109
7/16-9/16	2618-1618H*	5-1/16	25/64-17/64	5/16-11/32	.138
5/8-11/16	2630-2630H*	6	15/32-17/32	3/8-13/32	.213
3/4-1	RF54	8	17/32-11/16		.456
3/4-7/8	RF54A	8	17/32-5/8		.488
7/8-1-1/8	RF55	9-1/2	5/8-25/32		.788
7/8-1	RF55A	9-1/2	5/8-11/16		.856

^{*}Denotes 6-Point Openings.



CYLINDER HEAD WRENCHES AND TORQUE WRENCH ATTACHMENTS — ½ INCH SQUARE DRIVE

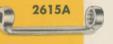


The 2613 1/2" drive Cylinder Head Wrench has an opening of 3/4" to fit many of the Cylinder Head bolts on late model cars. The tool itself is 5-9/16" long and weighs .444 lbs.

The 2614 Cylinder Head Wrench also used on many late model cars has an opening of 3/4", is 5-1/2" long and weighs .688 lbs.



This Cylinder Head Wrench 2615 is designed for use on Buick Cylinder Head Bolts, has an opening of 5/8" and is 5-9/16" long and weighs .441 lbs.



The 2615A Cylinder Head Wrench has an opening of 11/16". Length 5-9/16" and weighs .469 lbs. This wrench is used with any of the Attachments in 1/2" Drive.



This Cylinder Head Wrench 2616, in addition to being used as an Attachment for 1/2" Drive, is also used as a Cylinder Head Wrench for Chevrolet cars. Has an opening size of 5/8". Length is 5-3/4" and weighs .519 lbs.

2617

This wrench #2617 is used as a Cylinder Head Wrench for Ford, Mercury, Pontiac, and Studebaker having an opening of 11/16". The wrench is 8-3/8" long and weighs .825 lbs.

SPINNER WRENCHES

This series of wrenches has a plastic screwdriver handle and incorporates socket ends ranging from 3/16" to 1/2" openings. Very convenient for tightening and loosening nuts and bolts with great speed.

CH06 THRU	
CH16	JAS .
25	

		Part	Overall	Shaft	Socket	Weight
	Opening _	No.	Length	Length	End Dia.	Lbs.
	3/16	CH06	6	2-7/8	5/16	.147
	1/4	CH08	6	3	3/8	.131
<u>ہ</u>	5/16	CH10	6	3	1/2	.156
1	11/32	CH11	6-1/8	3	1/2	.169
ı	3/8	CH12	6-1/8	2-7/8	9/16	.153
	7/16	CH14	6-1/16	3	21/32	.216
	1/2	CH16	6-1/8	3	11/16	.213



SPECIAL TYPE WRENCHES

BRAKE ADJUSTING WRENCHES

The 2560 Brake Adjusting Wrench has a long handle off-set to provide clearance around oversized tires. The 3/16" opening fits most standard connections found on Brake Lining Connections.

2560 — 7/16" opening. Length: 14 inches. Weight: .438 lbs.

The 2561 tool has openings of 3/16" and 1/4" designed for adjustment of Bendix Brake eccentrics. Made of alloy steel with polished head, nickel chrome plated.

2561 — 3/16" x 1/4" opening. Length: 6-1/4 inches. Weight: .169 lbs.

This Adjusting Wrench #2566 is used on the star nut of the two shoe Bendix Brakes.

2566 - 1/16 inch blade thickness. Length: 7-1/2 inches. Weight: .213 lbs.

Much like the other Brake Wrenches, the 2566A is used for Brake Adjustments on Chevrolet and other close quarter jobs. 2566A — 1/16 inch blade thickness, Length: 8 inches, Weight: .209 lbs.

*Note: See Section 10, Page 1 for other Brake Tools.

DISTRIBUTOR WRENCHES

The 6508 Distributor Wrench incorporates the bends on off-set to enable convenient application on late model Chevrolets, Pontiacs, Oldsmobiles and Buicks.

6508 — 9/16" opening. Length: 16-3/8 inches. Weight: .671 lbs.

The 6509 Distributor Wrench enables easy application when adjusting the Distributor Nuts on late model Mercurys, Cadillacs, Dodges, Chryslers, Lincolns, Plymouths, DeSotos and Packards.

6509 — 1/2" opening. Length: 18-3/8 inches. Weight: .687 lbs.

The 6510 Wrench has the unique bend which enables the mechanic to properly service late model Fords

6510 — 1/2" opening. Length: 9-3/8 inches. Weight: .447 lbs.

The 6511 Distributor Wrench is basically the same as 6510 but has a straight end instead of the twist found on the 6510.

6511 — 1/2" opening. Length: 9-2/8 inches. Weight: .478 lbs.

Bonney Forge & Tool Works of Alliance, Ohio, has incorporated modern facilities, skilled craftsmanship plus engineering and production coordination, which offers complete services for any "Special" tool request.

To date, Bonney has produced special tools for most industries including aircraft, marine, construction and many others which demand the "unusual" in service and production.





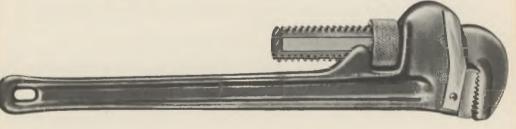


Max. Opening	Part No.	Length (L)	Head Diameter	Weight Lbs.
17/32	BW4	4-1/4	1-3/16	.119
7/8	BW6	6-3/8	1-13/16	.281
1-1/8	BW8	8-1/8	2	.419
1-5/16	BW10	10-1/8	2-9/16	.813
1-7/16	BW12	12-1/4	3	1.350
1-7/8	BW15	15-5/16	4-5/32	1.738
2-1/16	BW18	18-1/2	4-7/8	2.356
Ref.: Fed. Sp	oec. GGG-W-631a,	Type 1.		



BW PARTS REPAIR KIT

The Kit consists of extra jaws, knurls, pins, and springs. The size of this carton is 4-1/4" x 6-1/4" x 1-1/2", weight 2#.

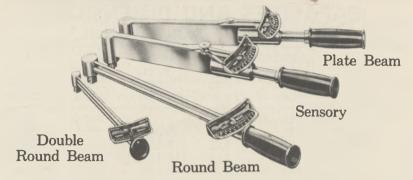


Maximum Pipe Size	Part No.	Length	Head Diameter	Weight Lbs.
3/4	PW6	5-1/2	1-9/16	.428
1	PW8	7-3/8	2-1/8	.863
1-1/2	PW10	9-3/4	2-1/2	1.760
2	PW12	11-1/2	3	2.813
2	PW14	13	3-1/8	3.675
2-1/2	PW18	16-1/2	3-5/8	5.887
3	PW24	· 22-1/4	4-1/4	9.575
5	PW36	31	5	19.313
Ref.: Fed. Sp	pec. GGG-W651b,	Γype 2, Class A.		



TORQUE WRENCHES (FORMULAS & DESCRIPTION)

REF. FED. SPEC. GGG-W-686



CAPACITIES AND DIMENSIONS

SENSORY TORQUE WRENCH

Catalog Number	Torque Capacity	Gradua- tions in Steps of	Drive Square Size (Inches)	Lever Arm Distance (Inches)	Pull Required Max. Scale	Overall Length (Inches)	Weight (Pounds)
TS300-I AS300-I TS600-I AS600-I AS1200-I AS1800-I AS2400-I RS2400-I RS3600-I	Inch-Lbs. 0 to 300 0 to 300 0 to 600 0 to 600 0 to 1200 0 to 1800 0 to 2400 0 to 3600	Inch-Lbs. 12-1/2 12-1/2 25 25 50 50 50 50 100	3/8 1/2 3/8 1/2 1/2 1/2 1/2 3/4 3/4	13-1/2 13-1/2 13-1/2 13-1/2 15 18 24 24 30	Pounds 22.2 22.2 44.4 44.4 80.0 100.0 100.0 100.0 120.0	16 16 16 17-1/2 20-9/16 28-1/8 28-1/4 34-1/4	2.750 2.750 2.750 2.750 2.750 2.750 3.750 7.750 7.750 10.750
TS25 AS25 TS50 AS50 AS100 AS150 AS200 RS200 RS300	Foot-Lbs. 0 to 25 0 to 25 0 to 50 0 to 50 0 to 100 0 to 150 0 to 200 0 to 200 0 to 300	Foot-Lbs. 1 2-1/2 2-1/2 5 5 5 10	3/8 1/2 3/8 1/2 1/2 1/2 1/2 3/4 3/4	13-1/2 13-1/2 13-1/2 13-1/2 15-1/2 15 18 24 24 24	Pounds 22.2 22.2 44.4 44.4 80.0 100.0 100.0 100.0 120.0	16 16 16 17 20-9/16 28-1/8 28-1/8 34-1/4	2.750 2.750 2.750 2.750 2.750 3.750 7.750 7.750 10.750

PLATE BEAM TORQUE WRENCH

	Inch-Lbs.	Inch-Lbs.			Pounds		
TP300-I	0 to 300	12-1/2	3/8	13-1/2	22.2	16	2.750
AP300-I	0 to 300	12-1/2	1/2	13-1/2	22.2	16	2.750
TP600-I	0 to 600	25	3/8	13-1/2	44.4	16	2.750
AP600-I	0 to 600	25	1/2	13-1/2	44.4	16	2.750
AP1200-I	0 to 1200	50	1/2	15	80.0	17-1/2	2.750
AP1800-I	0 to 1800	50	1/2	18	100.0	20-9/16	3.750
AP2400-I	0 to 2400	50	1/2	24	100.0	28-1/8	7.750
RP2400-I	0 to 2400	50	3/4	24	100.0	28-1/8	7.750
RP3600-I	0 to 3600	100	3/4	30	120.0	34-1/4	10.750
	Foot-Lbs.	Foot-Lbs.			Pounds		
TP25	Foot-Lbs. 0 to 25	Foot-Lbs.	3/8	13-1/2	Pounds 22.2	16	2.750
TP25 AP25		Foot-Lbs. 1 1	$\frac{3}{8}$ $\frac{1}{2}$	13-1/2 13-1/2		16 16	2.750 2.750
	0 to 25	Foot-Lbs. 1 1 2-1/2			22.2		
AP25	0 to 25 0 to 25	1 1	1/2	13-1/2	22.2 22.2	16 16 16	2.750
AP25 TP50	0 to 25 0 to 25 0 to 50	1 1 2-1/2 2-1/2 5	$\frac{1}{2}$ 3/8	$\frac{13-1/2}{13-1/2}$	22.2 22.2 44.4	16 16 16 17-1/2	2.750 2.750
AP25 TP50 AP50	0 to 25 0 to 25 0 to 50 0 to 50	1 1 2-1/2 2-1/2 5 5	$\frac{1/2}{3/8}$ $\frac{1}{2}$	13-1/2 13-1/2 13-1/2	22.2 22.2 44.4 44.4 80.0 100.0	16 16 16 17-1/2 20-9/16	2.750 2.750 2.750 2.750 2.750 3.750
AP25 TP50 AP50 AP100	0 to 25 0 to 25 0 to 50 0 to 50 0 to 100	1 1 2-1/2 2-1/2 5 5 5	1/2 3/8 1/2 1/2	13-1/2 13-1/2 13-1/2 15	22.2 22.2 44.4 44.4 80.0	16 16 16 17-1/2	2.750 2.750 2.750 2.750
AP25 TP50 AP50 AP100 AP150	0 to 25 0 to 25 0 to 50 0 to 50 0 to 100 0 to 150	1 1 2-1/2 2-1/2 5 5	1/2 3/8 1/2 1/2 1/2	13-1/2 13-1/2 13-1/2 15 18	22.2 22.2 44.4 44.4 80.0 100.0	16 16 16 17-1/2 20-9/16	2.750 2.750 2.750 2.750 3.750
AP25 TP50 AP50 AP100 AP150 AP200	0 to 25 0 to 25 0 to 50 0 to 50 0 to 100 0 to 150 0 to 200	1 1 2-1/2 2-1/2 5 5 5	1/2 3/8 1/2 1/2 1/2 1/2	13-1/2 13-1/2 13-1/2 15 18 24	22.2 22.2 44.4 44.4 80.0 100.0 100.0	16 16 16 17-1/2 20-9/16 28-1/8	2.750 2.750 2.750 2.750 2.750 3.750 7.750



CAPACITIES AND DIMENSIONS

ROUND BEAM TORQUE WRENCH

Catalog Number	Torque Capacity	Gradua- tions in Steps of	Drive Square Size (Inches)	Lever Arm Distance (Inches)	Pull Required Max. Scale	Overall Length (Inches)	Weight (Pounds)
ZA600-I ZA1200-I ZA1800-I ZA2400-I	Inch-Lbs. 0 to 600 0 to 1200 0 to 1800 0 to 2400	Inch-Lbs. 25 50 50 100	1/2 1/2 1/2 1/2	†13-5/16 †16-11/16 †16-11/16 †19-1/4	Pounds 45.1 72.2 107.9 124.7	15-11/16 19-3/16 19-3/16 21-3/4	1.250 2.0 2.125 2.500
ZA50 ZA100 ZA150 ZA200	Foot-Lbs. 0 to 50 0 to 100 0 to 150 0 to 200	Foot-Lbs. 2-1/2 5 5 10	1/2 1/2 1/2 1/2	†13-5/16 †16-11/16 †16-11/16 †19-1/4	Pounds 45.1 72.2 107.9 124.7	15-11/16 19-3/16 19-3/16 21-3/4	1.250 2.0 2.125 2.500
TDR 50-I TDR100-I TDR200-I TDR300-I ADR300-I	Inch-Lbs. 0 to 50 0 to 100 0 to 200 0 to 300 0 to 300	Inch-Lbs. 2-1/2 5 10 12-1/2 12-1/2	3/8 3/8 3/8 3/8 1/2	† 8-17/32 † 9-3/16 †10-1/8 †12-9/16 †12-9/16	Pounds 5.8 11.0 19.9 23.8 23.8	9-5/16 10-1/8 11-1/16 14-7/8 14-7/8	.750 .750 .750 1.250 1.250
TDR25-I ADR25-I	Foot-Lbs. 0 to 25 0 to 25	Foot-Lbs.	3/8 1/2	†12-9/16 †12-9/16	Pounds 23.8 23.8	14-7/8 14-7/8	1.250 1.250

[†]Measure When Computing For Use With Adaptors and Extensions.

BONNEY SPRING TESTER

When used in conjunction with a Bonney torque wrench it is possible to check the strength of valve and clutch spring to be in accordance with manufacturers' spring specifications.



SPT

An intricate tone device sounds the instant the spring is compressed to the desired length, which may be pre-set by an adjustment of the spring platform on the threaded column. When making the test, read the scale on the torque wrench as the tone device sounds, and multiply the footpound reading by two (2) and the result is the spring strength in pounds.



ATTACHMENTS — ADAPTERS — EXTENSIONS

ATTACHMENTS

An attachment is any shape or form of work-engaging member that functions coaxially with and is attachable to the drive square of the torque wrench.

Common examples of such attachments are ordinary sockets, screwdriver or socket head wrenches. See below:

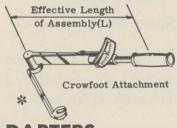


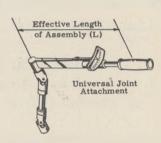


SPECIAL ATTACHMENTS

Less common examples of attachments are illustrated below:

Note that the effective length of the "lever length" (L) remains the same with this type of attachment.





ADAPTERS

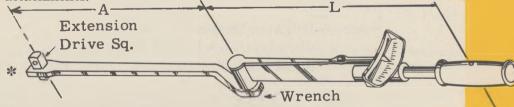
An adapter is any rigid shape or form of work-engaging member extending longitudinally forward from the axis of, and is attachable to, the drive square of the torque wrench.

Therefore, the length of lever "L" is increased by the length of the adapter extension.



EXTENSIONS

An extension is a rigid bar or shape extending longitudinally from the axis of and is attachable to the drive square for the purpose of increasing the range of the torque wrench and has at its extremity, a drive square for attachments.



A GOOD RULE TO REMEMBER Drive Sq.

An adapter or extension the same length as the lever length of the torque wrench will increase the capacity reading two times (double the reading). An adapter only 1/3 the lever length of the wrench will increase by 1-1/3, etc. Many errors have been made by not using this formula.

*Not cataloged items



BOLT TORQUE

The following is an approximate formula for determining the bolt torque:

T=.2DL

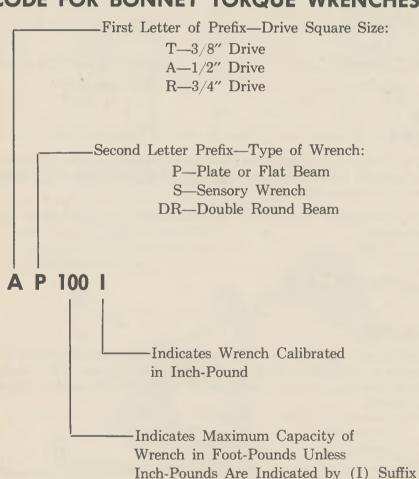
T=Torque inch-pounds

D=Bolt Diameter (inch)

L=Load (pounds)

The above formula is approximate and was derived from tests on bolts from 1/4" diameter to 1" diameter. There are many factors which affect the torque-tension ratio. Every torque specification should be checked experimentally before torque values are established.

CODE FOR BONNEY TORQUE WRENCHES

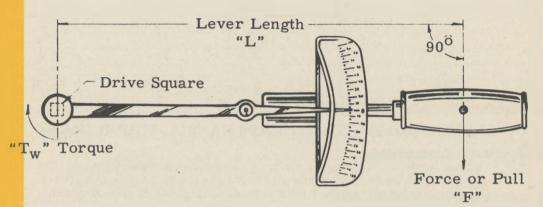


NOTE: All Wrenches Are Calibrated from 0 to Maximum Capacity.



WHAT DOES "TORQUE" MEAN?

Torque is basically the "twisting" action at a given point. In the drawing below we see a torque wrench designed to measure this action or force applied to bolts, spark plugs, adjustment levers, etc.

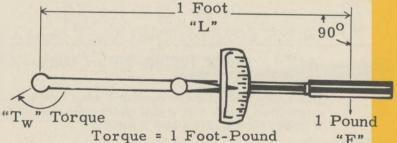


The "force or pull" exerted by the mechanic is illustrated as "F." The lever length of the wrench (distance between the centerline of the square drive and the centerline of the force being applied at the handle) indicated as "L."

The curved arrow "TW" represents the torque being applied. To calculate the torque at the square drive it is necessary to multiply the lever length "L" times the force "F" (shown in the following formula).

CONVERSION FORMULA

It often is advantageous to change a torque specification from inch-pounds to foot-pounds . . . inch-pounds to inch-ounces . . . inch-ounces to inch-grams . . . or inch-grams to inch-ounces.



Since there are twelve inches to a foot then it is evident that one foot-pound equals 12"-pounds.

Foot-Pounds \times 12 = Inch-Pounds Inch-Pounds \div 12 = Foot-Pounds

Since there are 16 ounces to a pound the formulas for converting inch-pounds and inch-ounces are:

Inch-Pounds \times 16 = Inch-Ounces Inch-Ounces \div 16 = Inch-Pounds Since there are 28.35 grams to an ounce the formulas for converting inch-ounces and inch-grams are;

Inch-Ounces \times 28.35 = Inch-Grams Inch-Grams \div 28.35 = Inch-Ounces

Remember, when the elastic limit of steel or other metals is exceeded, the object will take a permanent set and will not return to its original shape. This is the reason "torque measurement" is so important.



ROUND SHANK BOLSTER SCREWDRIVER—COMPOSITION HANDLE



These blades are one piece solid, forced into handles against the upset shoulder to insure an extra tight fit. The blades are heat treated, handles are of transparent non-conducting composition.

04-06-08

D /	701 1	W.	GI I	- 0	*** * 1 .
Part	Blade	Тър	Shank	Overall	Weight
No.	Length	Width	Width	Length	Lbs.
04	4	1/4	1/4	7-3/4	.191
06	6	5/16	5/16	10-1/2	.322
08	8	3/8	3/8	13	.500
010	10	7/16	7/16	15	.681
012	12	3/8	3/8	17-1/2	.831
Ref.: Fo	ed. Spec. GGG-S	3-121c. Type 1	Class 5 Style 1.		

POCKET SCREWDRIVER—COMPOSITION HANDLE—ROUND SHANK

001-2 to 001-6

BONNEA

This screwdriver will answer many of the problems encountered by the everyday mechanic. The handy clip holds the screwdriver in the pocket. The blade is forged and the handle is made of transparent non-conducting composition.

Part	Blade	Tip	Shank	Overall	Weight
No.	Length	Width	Width	Length	Lbs.
001-2	2	1/8	1/8	4-5/16	.025
001-3	3	1/8	1/8	6	.028
001-5	5	5/32	1/8	6	.041
001-6	6	5/32	1/8	9	.044
Ref.: Fee	d. Spec. GGG-9	S-121c. Type 1.	Class 8, Style 2,	_	

BONNEA

ELECTRICIANS SCREWDRIVER—COMPOSITION HANDLE

The screwdrivers listed below are exceptionally handy in electrical work. Same high quality and finish found in all Bonney Screwdrivers.

003-006-0010

Part	Blade	Tip	Shank	Overall		Weight
No.	Length	Width	Width	Length		Lbs.
003	3	3/16	3/16	6-3/16		.094
006	6	3/16	3/16	9-3/8		.138
0010	10	5/32	3/16	13-3/8		.166
Ref.: Fed. Spec. GGG-S-121c, Type 1, Class 1, Design A, Style 2.						

SPARK TESTER—NEON TUBE—COMPOSITION HANDLE

EO2

EO3

Especially handy for the mechanic when testing spark plugs. The tip is magnetized and a wire guard slides over the tip to protect the pocket. A handy pocket clip is also furnished.



The neon tube incorporated in this tough composition handle is especially

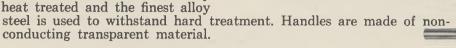
useful for automobile and electrical work. This screwdriver will really take a beating. When testing spark gap, the neon tube lights to a brilliant orange flash. If there is either no flash or a "stringy" flash, the plug is badly fouled. Replacement neon tubes E03B are available.

Part No.	Blade Length	Tip Width	Shank Width	Overall Length	Weight Lbs.
E02	2-1/4	1/8	3/32	5-1/4	.062
E03	3-1/8	3/16	5/32	6-5/8	.106



CLUTCH HEAD SCREWDRIVER 5

These screwdrivers are carefully heat treated and the finest alloy





CL₃ CL5

CL6 CL7

CL13-15

BONNEY

CPI-4

Part No.	Bit Size	Blade Length	Shank Width	Overall Length	Weight Lbs.
CL3	5/32	4	1/4	7-1/2	.156
CL5	1/4	6	5/16	10-1/4	.313
CL6	9/32	6-3/8	5/16	10-3/8	.306
CL7	5/16	6	3/8	10-7/8	.450
CL13	5/32	1-3/4	1/4	3-7/8	.128
CL15	1/4	1-3/4	1/4	3-7/8	.125

PHILLIPS TYPE—ROUND SHANK—COMPOSITION HANDLE

The handles are made of non-conducting material. Blades are drop forged and carefully heat treated. The sizes shown below will take care of all Phillips type screws.

Part	Bla	ıde	Overall	
No.	Length			Fits These Phillips Screws
CP1	3	3/16	6	#4 & Smaller Wood Screws, All Types. #4 & Smaller Mach. Screws, All Types. #4 Sheet Metal Screws, Flat, Oval, Fillister. #4 & #5 Sheet Metal Screws, Round Head. 1/8" Stove Bolts, Round Head.
CP2	4	1/4	7-3/4	#5 to #9 Wood Screws, Flat and Oval. #5 to #10 Wood Screws, Fillister and Round. #5 to #10 Mach. Screws, All Types. #5 to #10 Sheet Metal Screws, Flat, Oval, Fillister. #6 to #12 Sheet Metal Screws, Round Head. 1/8" to 3/16" Stove Bolts, Flat, Oval, Fillister. 5/32" to 3/16" Stove Bolts, Round Head.
CP3	6	5/16	10-1/4	#10 to #16 Wood Screws, Flat and Oval. #11 to #16 Wood Screws, Round and Fillister. #12 & 1/4" Machine Screws, Flat, Oval and Binding. #12 to 5/16" Machine Screws, Round and Fillister. #12 to #14 Sheet Metal Screws, Flat, Oval, Fillister. #14 Sheet Metal Screws, Round Head.
CP4	8	3/8	12½	#18 and Larger, Wood Screws, All Types. 5/16" & Larger, Machine Screws, Flat, Oval, Binding. 3/8" & Larger, Machine Screws, Round and Fillister. 3/8" & 1/2" Stove Bolts, All Types.

Fed. Spec.: GGG-S-121c, Type 6, Class 1, Style 1.

STUBBY—SQUARE SHANK—COMPOSITION HANDLE

This handle is designed to fit comfortably in the hand and is of transparent non-conducting composition. This is truly an exceptionally strong screwdriver used for fine adjustments.

BONNEY

S01-S02

-						
Ī	Part	Blade	Tip	Shank	Overall	Weight
	No.	Length	Width	Width	Length	Lbs.
	S01	1-3/4	1/4	1/4	3-3/4	.116
	SO2	1	1/4	7/32	2-3/4	.050
ı	Ref.: Fe	ed. Spec. GGG-S-	121c, Type 1, (Class 3.		



SQUARE SHANK—BOLSTER—COMPOSITION HANDLE

securely anchored in the hand non-conducting type material.

These blades are forged in one piece, heat treated and securely anchored in the handle to prevent turning. The handles are of

504-6-8-12

Part No.	Blade Length	Tip Width	Shank Width	Overall Length	Weight Lbs.
SO4	4	5/16	7/32	7-3/4	.213
SO6	6	3/8	5/16	10-1/4	.378
SO8	8	7/16	3/8	12 - 3/4	.569
SO12	12	1/2	3/8	17-1/2	.800
Ref.: Fed. Spec. GGG-S-121c, Type 1, Class 5, Style 1, Design B.					

ROUND SHANK PHILLIPS TYPE—WOOD HANDLE (SHORT)



SP1-SP2

These screwdrivers are especially handy for cramped quarters in tightening windshield moulding and other jobs that require a strong screwdriver of short length. The mechanic will find many uses other than those mentioned above for this type of screwdriver.

ROUND SHANK PHILLIPS TYPE--WOOD HANDLE (LONG)



WP1-2-3-4

These screwdrivers are made with the same exacting care as the regular type screwdriver. The four sizes listed below will cover the complete range of Phillips type screws

Part	Bla	ade	Overall		Weight
No.	Length	Diameter	Length	Fits Phillips Screws	Lbs.
SP1	1	3/16	2-7/8	#4 and Smaller	.044
SP2	1-3/8	1/4	3-5/8	#5 to #9, inc.	.088
WP1	3	3/16	6-1/4	#4 and Smaller	.075
WP2	4	1/4	8-3/4	# 5 to # 9, inc.	.141
WP3	6	5/16	11	#10 to #16, inc.	.294
WP4	8	3/8	14-1/2	#18 and Larger	.519
Ref.: Fed. Spec. GGG-S-121c, Type 6, Class 1, Style 2.					

ROUND SHANK, WOOD HANDLI:-BOLSTER-BLADE

BONNEL

W03-010

These fine quality wood handle screwdrivers will take

rugged treatment. Blades are drop forged from finest quality steel and carefully heat treated to withstand a great deal of force. The handles are designed to form a comfortable grip and the blades are firmly anchored into the handle.

Part	Blade	Tip	Shank	Overall	Weight
No.	Length	Width	Width	Length	Lbs.
WO3	3	1/4	7/32	7-1/2	.153
WO4	3-3/4	1/4	1/4	9	.194
WO6	5-11/16	9/32	5/16	11-7/8	.331
WO8	8	3/8	3/8	14-5/16	.525
WO10	10	3/8	3/8	16-5/16	.588
Fed. Spec.: GGG-S-121c, Type 1, Class 5, Style 2, Design A.					

0072 Set



OFFSET SCREWDRIVERS FOR CLOSE QUARTER WORK

These offset screwdrivers are exceptionally handy for tight quarters where obstructions will not permit standard screwdrivers.

0669—4-7/8 inches long. Tip 1/4 inch wide. 0670—5-3/8 inches long. Tip 5/16 inch wide. 0671—5-7/8 inches long. Tip 3/8 inch wide.



Bonney offers a wide variety of pliers to meet most any requirement. On the following pages are listed the various types with all pertinent specifications.

B6, B8, B10 COMBINATION PLIERS

These pliers are built for dependable service, forged, heat treated, and plated under exacting specifications.

Part No.	Length	Weight, Lbs.
B6	6"	.443
B8	8"	.557
B10	10"	1.109
D A TI I C	CCC D (F4 FF	T1 (01 + 0) 1 +

Ref.: Fed. Spec. GGG-P-471a, Type F, Class 1, Style 1.

B13 FLAT NOSE PLIERS B14 SHORT CHAIN NOSE PLIERS

These pliers are exceptionally useful for ignition, starter, generator, carburetor, light wiring jobs.

	,	, 0
Part No.	Length	Weight, Lbs.
B13	5"	.213
B14	5"	.203
D C T1 1 C	COOD AND IN 1	TT (0) 1 (0) 1 (0)

Ref.: Fed. Spec. GGG-P-471a, Type H, Class 1, Style 2.

B16, B17, B19 DIA. CUTTING PLIERS

The diagonal head provides hand clearance for close quarter cutting.

Part No.	Length	Weight, Lbs.	
B16	5"	.244	
B17	6"	.363	
B19 7"		.506	
DATE OF C	OO D 454 B	TT (0) 1 0 1 0	

Ref.: Fed. Spec. GGG-P-471a, Type H, Class 1, Style 2.

B18 HEAVY DUTY DIA. CUTTING PLIER

Specially heat treated cutting edge gives long, dependable service.

Part No.	Length	Weight, Lbs.
B18	7"	.531
Ref.: Fed. Spec. C	GG-P-471a, Type	H, Class 2.

B20 BATTERY PLIER

The jaws of this plier are deeply serrated to insure the best grip on terminal connections.

Part No.	Length	Weight, Lbs.
B20	8"	.531
Ref.: Fed. Spec.	GGG-P-471a, Type D	

B21 LOCK RING PLIER

Especially designed to remove and install lock or snap rings.

Part No.	Length	Weight, Lbs.
B21	7-3/4"	.406

B22, B23 LINEMAN'S PLIERS

A very handy plier for most all wiring jobs.

Part No.	Length	Weight, Lbs.
B22	6"	.466
B23	8"	.956
Ref.: Fed. Spec. G	GG-P-471a, Type N	I.

SECTION 5-PAGE 1



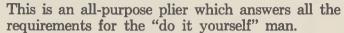


B25 LONG NOSE SIDE CUTTING PLIER

This plier is especially handy for close quarter work, reaching into tight places.

Part No.	Length	Weight, Lbs.
B25	6"	.281
Ref.: Fed. Spe	ec. GGG-P-471a, Type H	

B29 THIN NOSE SLIP JOINT SIDE CUTTING PLIER



Part No.	Length	Weight, Lbs.
B29	7-1/2"	.556

B30 WIRING PLIER, DUCK BILL

The square jaws give a tight grip for working in close quarters.

Part No.	Length	Weight, Lbs.
B30	7"	.303
Ref.: Fed. Spec.	GGG-P-471a, Type Y.	

B33 HOG RING PLIER

For pinching large rings. Jaws designed for perfect fit. Useful for installing auto seat covers.

1000 1101 000101 101	HIDDUILING WATER	2000 0010231
Part No.	Length	Weight, Lbs.
B33	7"	.409

B35 IGNITION PLIER

The mechanism is designed to relieve pressure on the bolt.

Part No.	Length	Weight, Lbs.
B35	5"	.150

B36, B38, B310 SLIP JOINT PLIERS

2 position plier with throat-type cutter.

Part No.	Length	Weight, Lbs.
B36	6"	.466
B38	8"	.631
B310	10"	.162
Ref.: Fed. Spec. GG	G-P-471a, Type	F, Class 1, Style 1.

B41 THIN NOSE 30° ANGLE SLIP JOINT PLIER

Designed for special applications, heat treated, chromium plated.

Part No.	Length	Weight, Lbs.
B41	6"	.463

B42 CURVED LONG NOSE PLIER

The nose of this plier is specially bent for hard to get at jobs.

•	J J				
-	Part No.	Length	Weight, Lbs.		
-	B42	6"	.294		
	Ref.: Fed. Spec.	GGG-P-471a, Type T,	Class 1.		

B43 CORBIN HOSE CLAMP PLIER

Used with wire self-tightening hose clamps.

	0	-
Part No.	Length	Weight, Lbs.
B43	8"	.600



B44 SLIP JOINT IGNITION PLIER

Part No.	Length	Weight, Lbs.
B44	6-1/2"	.341
Ref.: Fed. Spec. G	GG-P-471a, Type E,	Class 1.

B45 RIB JOINT PUMP PLIER

The design of this tool allows each rib joint to share the shearing load, thereby relieving tension on the bolt. Adjustable to 5 positions, parallel opening 1-1/16".

Part No.	Length	Weight, Lbs.
B45	10"	.806
Ref.: Fed. Spec.	GGG-P-471a, Type E,	Class 1.

B46 CHAIN NOSE PLIER

Box joint construction resists loosening from twisting action.

Part No.	Length	Weight, Lbs.
B46	8"	.428
Ref.: Fed. Spec.	GGG-P-471a, Type T,	Class 2.

B47 DUCK BILL PLIER

The design of this plier resists loosening from twisting action.

Part No.	Length	Weight, Lbs.
B47	8"	.416
Ref.: Fed. Spec.	GGG-P-471a, Type	Υ.

B56 THIN STRAIGHT NOSE SLIP JOINT PLIER

Special design allows gripping action in tight spots. Length Part No. Weight, Lbs. **B**56 .488 Ref.: Fed. Spec. GGG-P-471a, Type F, Class 2, Style 1.

B100 PLIER WRENCH WITH "QUICK" RELEASE

Gives positive gripping on irregular objects. Easily adjusted with locking hinged lower jaw. 7" overall length. Weight (Pounds) .588.

Ref.: Fed. Spec. GGG-P-471a, Type U, Class 1, Style 1.

B102 PLIER WRENCH WITH "QUICK" RELEASE

Gives positive gripping on irregular objects. Easily adjusted with locking hinged lower jaw. 10" overall length. Weight (Pounds) 1.244.

Ref.: Fed. Spec. GGG-P-471a, Type U, Class 1, Style 1.

B50, B51, B52 BONNEY METAL SNIPS

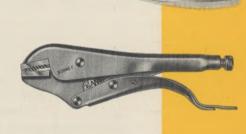
The jaws are 2-1/2" long, handle 6-3/4" long, overall length 9-3/4". Finished in 3 styles:

B50 for right hand cutting. Weight (Pounds) .888 B51 for left hand cutting. Weight (Pounds) .172 B52 universal, for right or left cuts.

Weight (Pounds) .900

SECTION 5-PAGE 3

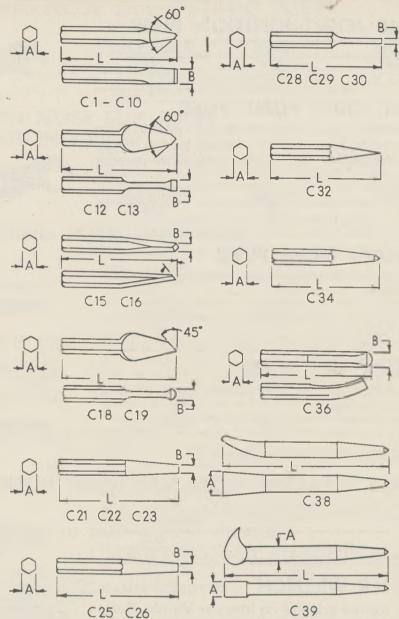












Bonney chisels are forged of special alloy steel and carefully heat treated to give maximum strength and durability. The bits are hard enough to work on any untempered metal and still soft enough to be resharpened with a file. See section 16, page 18 for sets.

FLAT CHISELS

Part No.	Width of Cut (B)	Stock Dia. (A)	Length (L)	Weight, Lbs.
C1	5/16	1/4	5	.062
C2	7/16	3/8	5-1/2	.163
C2A	1/2	7/16	6	.244
C3	5/8	1/2	6	.328
C4	3/4	5/8	6-1/2	.563
C5	7/8	3/4	7-1/2	.838
C6	1	7/8	8	1.269
C7	1-1/4	1	8-1/2	1.708
Ref.: Fed. Spec	e. GGG-C-313a, Ty	pe 4, Class 1, R	egular Length.	



CHISELS AND PUNCHES

Important facts about chisel grinding. Avoid grinding with a machine, this can cause excessive heat which will destroy the temper of the chisel. The best method is with a file using a rocking or curved stroke, thus avoiding cutting too much metal. A properly "dressed" cutting edge should have a rounded appearance (convex) instead of a concave appearance.

appear	rance.			
LONG				
D / 37	Width of Cut		Length	XX7 . 1 . X 1
Part No.	(B)	(A)	(L)	Weight, Lbs.
	7/8	3/4	14	1.688
	GGG-C-313a, Ty	pe 4, Class 2, Lo	ng.	
CAPE CHISELS	1/4	1 /0		004
C12 C13	1/4	1/2		.294
	3/8 . GGG-C-313a, Ty	5/8		.513
DIAMOND PO		pe 1, Style A.		
C15		1 /0	C 1 /4	000
C16	$\frac{1/4}{5/16}$	$\frac{1/2}{5/8}$	6-1/4	.328
	. GGG-C-313a, Ty			.005
ROUND NOSE		pe II, beyle A.		
C18		1 /9	6	.294
C18	$\frac{1/4}{3/8}$	1/2 5/8	7	.513
	. GGG-C-313a, Ty	/	1	.010
SOLID PUNCHI		pe o, Class I.		
C21	1/16	3/8	5-1/4	.141
C22	$\frac{1/16}{1/8}$	9/16	6-1/4	.291
C23	$\frac{1}{3/16}$	5/8	7	.506
	. GGG-P-831a, Ty		•	
LONG TAPER		,		
C25	5/32	3/8	8-3/16	.209
C26	3/16	$\frac{3/5}{1/2}$	9	.406
Ref.: Fed. Spec.	GGG-P-831a, Ty	pe 9, Class B.		1/
PIN PUNCH				1/-
C28	1/8	3/8	5	.138
C29	3/16	1/2	6-1/4	.241
C30	1/4	5/8	7	.431
	. GGG-P-831a, Ty	pe 8, Class A.		
PRICK PUNCH				
C32		3/8	5	.128
Ref.: Fed. Spec.	. GGG-P-831a, Ty	pe 10.		
CENTER PUNC	Н			
C34		3/8	5	.144
Ref.: Fed. Spec.	. GGG-P-831a, Ty	pe 2, Class A.		
RIVET BUSTER	5			
C36	5/8	3/4	12	1.738
Ref.: Fed. Spec.	. GGG-C-313a, Ty	pe 5.	1	
PRY OR PINCH	H BAR			
C38		5/8	16	1.144
Ref.: Fed. Spec.	. GGG-B-101b, Ty			
PRY BAR TAPE	ERED END			
C39	9/16	19/32	15-1/4	.975
	. GGG-B-101b, T		,	
		TION / DAGE O		

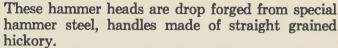
SECTION 6-PAGE 2

HAMMERS - BALL PEIN, SOFT FACE, CLAW



Bonney hammers are designed to give long life and maximum service. See Section 8 for information on various hammers used in body and fender work.

BALL PEIN HAMMER



-						
	Part	Overall	Head	Regular Head	Ball Pein	Weight
	No.	Length	Length	Dia.	Dia.	Ounces
	PH2	9-3/8	2-1/8	19/32	17/32	4
	PH5	11-3/4	3-3/8	1	7/8	8
	PH6	13	3-11/16	1-1/16	15/16	12
	PH7	14-1/8	4	1-3/16	1	16
	PH9	16	4-1/2	1-3/8	1-3/16	24
	PH10	16	4-7/8	1-1/2	1-1/4	32

SOFT FACE HAMMER

These hammers are especially handy for body and fender repair work for shaping and forming light sheet metal, also for any job requiring the hammer that will not mar finished surfaces for delicate machine parts.

	Part No.	Overall Length	Tip Diameter	Hammer Weight Ounces	Tip Part No.	Description	Tip Weight Ounces
I	PH15	11-5/8	1-1/4	8	PH15TP	Tip for PH15	3/4
	PH17	7-3/4	5/8	1-1/2	PH17TP	Tip for PH17	1/8
	PH18	9	7/8	4	PH18TP	Tip for PH18	1/4
ı	PH20	11-5/8	1-3/8	16	PH20TP	Tip for PH20	1
	PH21	12-3/4	1-9/16	24	PH21TP	Tip for PH21	1-1/2

TIRE & RIM HAMMER

Especially designed to make the difficult job of tire changing easier.

Part No.	Overall	Head	Head	Weight
	Length	Length	Diameter	Ounces
PH19	15-1/4	5	1-11/16	48

RUBBER MALLET

This is an especially handy mallet to use on jobs where contact may be made with finished surfaces.

Part No.	Overall	Head	Head	Weight
	Length	Length	Diameter	Ounces
PH30	17	5-1/4	2-5/8	28

CLAW HAMMERS



Hammer number PH35 is made with a curved claw while PH36 is made with straight claw. Both hammer heads are drop forged of high grade steel, polished to give a quality appearance.

Part No.	Overall Length	Head Length	Head Dia.	Weight Ounces
PH35	13-1/8	4-15/16	1-1/16	16
PH36	13-1/8	5-11/16	1-1/16	16

SECTION 6-PAGE 3



To get the most out of your file, it should be selected with great care to assure proper application to the job. The file is one of the most important tools in the mechanic's tool box.

How to choose a file...

What type of material are you going to file, and what results are you after? This must be taken into consideration when selecting your files.

Files are made in various shapes to fit the type of job: flat, square hole, round hole, edge, concave or convex surface. Also the size of file is determined by the length of stroke desired in addition to size and location of material to be filed.

When selecting the cut of the file, bear in mind the nature of material and the amount to be removed as well as the finish desired.

How to measure a file...

The length of the file is determined by measuring from shoulder (or point where body meets the tang) to the opposite end (or point).



What type of file...

When choosing a particular type of file, bear in mind that a larger file will have a coarse cut. It is simple to visualize that a smaller file in the same pattern would not be as coarse because of the overall pattern being reduced. Also bear in mind that the same difference always exists between bastard, second cut and smooth cut for any file in any given length.



FEDERAL SPEC. GGG-F-00325

Illustrated below are the five types of files in the Bonney line. The same high quality found in other Bonney tools. Files from 5 inches to 10 inches packaged in dozens. Others packaged in six each.

MILL FILES (Bastard) PART No. FMB

	Pkg. of	6		Pk	
6"	8"	10"	12"		
1.312	2.000	4.875	5.625		

kg. of 12 14"

16" Length 4.812 7.500 Weight

FLAT FILES (Bastard) PART No. FFB

	Pkg. of 6	
6"	8"	10"
1.625	4.875	7.500

Pkg. of 12 14" 12"

5.750

Length Weight

ROUND FILES (Bastard) PART No. FRB

	Pkg. of 6		Pkg. of
6"	8"	10"	12"
1.625	3.250	3.500	6.375

j. of 12 12"

Length Weight

8.750

HALF-ROUND (Bastard) PART No. FHB

	Pkg. of 6	
6"	8"	10"
1.500	3.375	6.375

Pkg. of 12 12" 14" 5.375 9.0

Length

Weight

Length Weight

EXTRA SLIM TAPER FILE PART No. FXST

	Pkg. of 6	
5"	6"	8"
.625	1.125	2.750



FILE HANDLES #2, #3,

These handles are offered in three popular sizes. They are made of wood (unfinished) and are protected against splitting at the tang opening with metal ferrule.

FH2 (SMALL) FOR 5" AND 6" FILES, WEIGHT LBS. .125 FH3 (MEDIUM) FOR 8" AND 10" FILES, WEIGHT LBS. .125 FH4 (LARGE) FOR 12", 14" AND 16" FILES, WEIGHT LBS. 187



One dozen high grade point files packaged on attractive, two-color, card for convenience of display and point of purchase appeal. These files are 5-3/8" long.

WEIGHT OF ONE DOZEN ON CARD-LBS. .250.



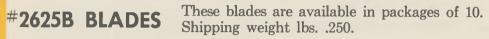
#2624 HACK SAW WITH RED PLASTIC HANDLE

This rugged hack saw features a durable red plastic pistol grip with curved design to enable a comfortable fit. The frame is adjustable for 8, 10, and 12" blades and features 4 index positions, attractive nickel-plate finish. Shipping weight lbs. 1.750.



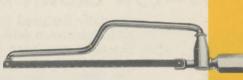
#2625 "CLOSE QUARTER" HACK SAW

Designed for use where clearances do not permit a standard frame, comes equipped with blade. Shipping weight lbs. .650.





Also designed to fit in close places, especially handy for electricians, plumbers, and home mechanics. Shipping weight lbs. .250.



#2627B BLADES These 6" blades are available in packages of 10. Shipping weight lbs. .065.

#2628 ADJUSTABLE HACK SAW FRAME

This reinforced frame is adjustable from 8" to 12", comes equipped with one 12" blade. An outstanding feature is that the blades may be faced in any one of four directions. Shipping weight lbs. 1.065.



F SERIES, FLEXIBLE HACK SAW BLADES

These blades are made of tungsten alloy steel with flexible black hardened teeth carefully built and set for cutting. Standard package 10 blades.

No.	Length	Width	Gauge	Teeth Per Inch	Blade Series	Weight Per Pkg.
F1018	10	1/2	.025	18	Coarse	.380
F1024	10	1/2	.025	24	Medium	.380
F1032	10	1/2	.025	32	Fine	.380
F1218	12	1/2	.025	18	Coarse	.450
F1224	12	1/2	.025	24	Medium	.450
F1232	12	1/2	.025	32	Fine	.450

HS SERIES, ALL HARD HACK SAW BLADES

These blades are non-flexible, made of high speed steel used for difficult cutting jobs such as chrome, nickel, and high carbon steel. Standard package 10 blades.

No.	Length	Width	Gauge	Teeth Per Inch	Blade Series	Weight Per Pkg.
HS1018 HS1024 HS1032 HS1218 HS1224 HS1232	10 10 10 12 12 12	1/2 1/2 1/2 1/2 1/2 1/2 1/2	.025 .025 .025 .025 .025 .025	18 24 32 18 24 32	Coarse Medium Fine Coarse Medium Fine	.380 .380 .380 .450 .450

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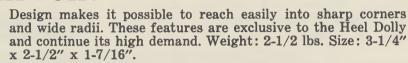
F2-TOE DOLLY



Thinness and length provide easy accessibility to narrow pockets. Large, flat face is frequently used in shrinking and dinging flat panels. The flat sides furnish a convenient anvil for repairing flanges. Weight: 2-1/2 lbs. Size: 4-3/4" x 2-3/8" x 1-1/8".

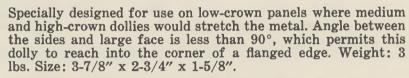
Federal Specifications: GGG-B-481a, Type IV.

F3—HEEL DOLLY



Federal Specifications: GGG-B-481a, Type III.

F4—LOW CROWN DOLLY



Federal Specifications: GGG-B-481a, Type VI.

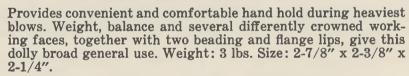
F5 — WEDGE DOLLY



Long, slender, general purpose dolly. Widely favored by many body repair men for all-around use. The long, thin lip is very useful in working behind reinforcements. Weight: 3-1/4 lbs. Size: 5-3/4" x 2-3/8" x 2-3/16".

Federal Specifications: GGG-B-481a, Type V.

F6—GENERAL PURPOSE DOLLY



Federal Specifications: GGG-B-481a, Type I, Style D.

F7—UTILITY DOLLY



High-crown dolly with one narrow beading edge. Thick rounded sides are useful in short radii curves. Wide application of uses in high-crown portions of hoods, fenders and body panels. Weight: 3 lbs. Size: 3-1/8" x 3" x 1-5/8".

Federal Specifications: GGG-B-481a, Type VIII, Style B.

F14—"WING DING DOLLY"

DESIGNED FOR MODERN CAR REPAIRS

New! The answer to repair problems on high-fin, high-fashion cars! It's a dolly, it's a spoon, it's a pry! Long handle, special contours for working up inside cramped fins. Wide spoon transmits hammer blows over wide area without damaging finish. Husky 1" dia. handle. 19" overall. Weight: 3-3/4 lbs.



F13—COMBINATION SPOON

General purpose fender spoon. Used as dolly behind brackets, inner panels and similar places. Handle offset to give balance when dinging and for long reach. Has high-crown working surface. Weight: 2-3/4 lbs. Face 1-3/4" x 5-1/2". Handle 1" octagon 4-3/4" long.

F15—LONG CURVED SPOON

Long, thin, curved blade is handy for prying up dents behind curved reinforcements in header panels, hinge anchors in doors, body pillars and reinforcements in hoods and radiator shells. Weight: 1-1/2 lbs. Length 10-1/2" overall. Face 2" x 7".

F16—LIGHT DINGING SPOON

To ding ridges smooth and level. When held against ridge and struck with hammer, spreads blow over large area making smooth job and preventing damage to metal or finish. Not made for prying. Weight: 11 oz. Length 10'' overall. Face $2'' \times 4-5/16''$.

F25 FLEXIBLE FILE BLADE (14 INCHES LONG)

For filing soft metals, this body file blade designed on the milling cutter principle. Each tooth has a land and groove, thereby increasing the cutting quality and eliminating the chips and loading. Recommended for sheet steel and auto bodies and fenders. Used with the Bonney file holders. Weight lbs. .687.

F31 ADJUSTABLE (FLEXIBLE) FILE HOLDER

Made of aluminum for long dependable service. Used with 14-inch flexible file, file can be flexed to match surface to be worked on. Shipping Wt. lbs. 1.437.

F24 FILE HOLDER (WOODEN)

A popular file holder made for F25 flexible blade. The special grip assures accurate filing. Shipping Wt. lbs. .937.

F26 SET (CONSISTS OF SIX F25 BLADES AND ONE F24 FILE HOLDER)

BODY AND FENDER TOOLS (HAMMERS)



Ref. Fed. Spec. GGG-H-86a

Bonney hammers are made of top quality materials. The heads are drop forged of the finest hammer steel and the handles are made of hickory. Heads are black with polished faces.

★ SEE SETS FB3 AND FB7 IN SET SECTION



PH22 BUMPING HAMMER

LENGTH OF HEAD 4-3/16" ROUND FACE DIAMETER 1-1/4" SQUARE FACE 1-1/8" sq. OVERALL LENGTH 12" HEAD WEIGHT OUNCES

PH23 LIGHT BUMPING HAMMER

LENGTH OF HEAD 4-1/8" ROUND FACE DIAMETER 1-1/4" SQUARE FACE 1" sq. OVERALL LENGTH 11-1/2" HEAD WEIGHT OUNCES 9

PH24 DINGING HAMMER

LENGTH OF HEAD 6" SMALL FACE DIAMETER 1-1/4" LARGE FACE DIA. 1-5/8" OVERALL LENGTH 12" HEAD WEIGHT OUNCES 14

PH25 LIGHT DINGING HAMMER

LENGTH OF HEAD 6-1/2"

ROUND FACE DIAMETER 1-1/4"

SQUARE FACE 1-1/16" sq. OVERALL LENGTH 11-1/2" HEAD WEIGHT OUNCES 10

PH26 SPEC. BUMPING HAMMER

LENGTH OF HEAD 4" ROUND FACE DIAMETER 1-9/16" OVERALL LENGTH 12" HEAD WEIGHT OUNCES 7

PH27 UPHOLSTERERS' MAGNETIC HAMMER ...

LENGTH OF HEAD 5-1/2" OVERALL LENGTH 12" HEAD WEIGHT OUNCES

PH31 LONG PICK HAMMER

LENGTH OF HEAD 9-1/2" ROUND FACE DIAMETER 1-5/8" OVERALL LENGTH 12" HEAD WEIGHT OUNCES 15

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REF. FED. SPEC. GGG-P-781

PO11 CONVERTIBLE GEAR PULLER

Heavy duty construction and designed for quick changeover to two-arm or three-arm puller as desired. The reversible arms (PO11-5) have a maximum reach of 3-7/8 inches in depth and up to 5-1/2 inches spread.

Easy and quick assembly and breakdown made possible by construction of the upper assembly pins (incorporating a ball-detent locking device). The PO11 can be used to replace two separate pullers. For easy identification, component parts have been assigned the following numbers:

PO11-1 (Hub) PO11-4 (Pin)

PO11-2 (Screw) PO11-5 (Arm—3-1/2" reach)

PO11-3 (Link) PO11-6 (Shear Pin)

All parts being interchangeable, this puller can be converted to PO11L (shown below) by securing a set of extra arms (PO11L-5). Maximum reach 3-7/8", maximum spread 5-1/2". Weight lbs. 2.562.

POIL CONVERTIBLE PULLER (WITH LONG ARMS)

This is actually the same puller as PO11 with the exception of longer adjustable arms (PO11L-5) with a maximum reach of 5-1/2" and a spread up to 8".

When purchasing a puller where the longer arms are required, the PO11-5 long arms should be clearly specified. The parts are identified by the following numbers:

PO11-1 (Hub) PO11-4 (Pin)

PO11-2 (Screw) PO11L-5 (Arm—5-1/2" reach)

PO11-3 (Link) PO11-6 (Shear Pin)

Maximum reach 5-1/2", maximum spread 8". Weight lbs. 3.250.

PO12 CONVERTIBLE GEAR PULLER

This heavy duty puller will answer most of the demands of the automotive service shop.

The design of this puller is basically the same as PO11, easily converted into a two- or three-arm puller to meet various job requirements.

An outstanding feature of this puller is the slotted jaws on one end of the reversible arms, for pulling gears which necessitate the use of cap screws in removal. These arms (PO12-5) have a maximum reach of 5-1/2" and will spread to 8".

Parts are identified by the following numbers:

PO12-1 (Hub) PO12-4 (Pin)

PO12-2 (Screw) PO12-5 (Arm—5-1/2" reach)

PO12-3 (Link) PO12-6 (Shear Pin)

Maximum reach 5-1/2", maximum spread 8". Weight lbs. 6.000.

Arms for PO11L

SECTION 9-PAGE 1

Assembly No. Politis

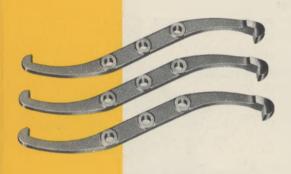








PO12L CONVERTIBLE GEAR PULLER (WITH LONG ARMS)



Arms for Assembly PO12L-5 The arms shown here (PO12L-5) are used to convert PO12 unit into the PO12L unit.

These longer arms have a maximum reach of 8-1/2" depth and spread to 10". Here again the choice must be made at the time of purchase for either long or short arms depending on the type of operation.

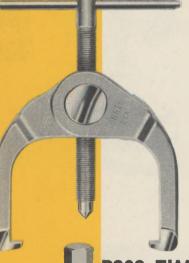
Parts are identified as follows:

PO12-1 (Hub) PO12-4 (Pin)

PO12-2 (Screw) PO12L-5 (8-1/2" Arm) PO12-3 (Link) PO12-6 (Shear Pin)

Maximum reach 8-1/2", maximum spread 10". Weight lbs. 7.0.

P305 TWO-ARM GEAR PULLER



Especially useful to the refrigeration serviceman, but also covers a great number of applications in automotive and aircraft service.

The unique feature of this puller is the simplicity of its design and construction.

Parts are identified as follows:

P305-1 (Outer Arm) P305-3 (Forcing Screw) P305-2 (Inner Arm) P305-5 (Pivot Pin)

Maximum reach 2-3/8", maximum spread 3-1/2". Weight lbs. 1.625.

P309 TIMING GEAR PULLER

For removing timing gears, fan assemblies, vibration dampeners and other parts which are topped to receive cap screws 3/8" in diameter or less.

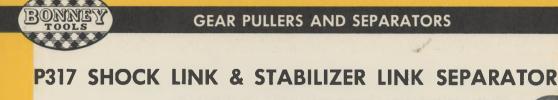
Parts for the P309 Puller are identified as follows:

P309-1 (Center block 5-1/2" long)

P309-2 (Forcing screw 11-1/2" long)

P309-3 (Cap Screws 2, 3/8"—16 threads per inch—3-1/2")

Maximum reach 7-1/2", maximum spread 5-1/2". Weight lbs. 2.750.



This forked wedge separation is used to free the tapered links of the shock absorber assembly or the stabilizer assembly from their mountings. The wedge is inserted between the link and the arm of the assembly and loosened by striking the tool.

P317 has a jaw opening of 5/8" and is 16" long. Weight lbs. 2.250.

P319 PITMAN ARM SEPARATOR

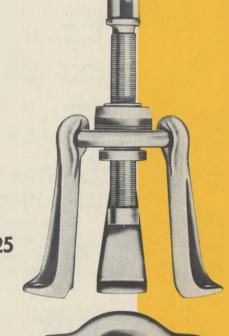
A forked wedge type separator used to dismount the Pitman arm assembly. Insert wedge between the Pitman arm and the shaft and strike end of tool. P319 has a jaw opening of 1-1/8'' and 11-1/4'' long. Weight lbs. 1.625. Both these tools, P317 & P319, can be used for separating most any machined members.

P325 & 326 UNIVERSAL WHEEL PULLER & ADAPTER

Most of the cars requiring a puller can be covered by P325 and P326. The adjustable legs make it possible to adapt to any hub, regardless of number of studs.

The special Adapter (P326) enables the puller to be used in many additional operations.

P325 (Hub Puller) Shipping Wt. Lbs. 10.0 P326 (Adapter) Shipping Wt. Lbs. 3.0 Maximum spread 7-1/2", maximum reach 4-7/8".



P325

P326



SECTION 9-PAGE 3

9



2553 & 2554 RIM WRENCHES

These rim wrenches cover practically all sizes of passenger car and truck wheel nuts. 2553 has 6 point openings of 3/4", 7/8", 15/16" and 13/16" and is 20" long. SHIPPING WEIGHT 8 LBS. The 2554 has openings from 4 point to 6 point as follows: 13/16" 4 point, 7/8", 1", 1-1/16", 1-3/16", and 1-1/2" 6 point, overall length 25". SHIPPING WEIGHT 12 LBS.

BRAKE SPRING PLIERS

2681A 2680—Brake spring pliers (patented) designed for easy removal and replacement of internal brake springs. 2680—Length 12-1/2 inches. Weight .687 lb.

2681—These pliers are much like the 2680 in application but have a prominent hook in the lower jaw which allows better control when removing brake springs. A special socket (2681A) is available which attaches to the handle. 2681—Length 12-1×2 inches. Weight .725 lb.

BU40B BUSHING DRIVER SET

This set is designed to drive all passenger car bushings as well as many truck and tractor bushings. Tools are made of alloy steel, hardened and tempered to give the best service. Packaged in metal box. 22 PIECES, SHIPPING WEIGHT 4.063 LBS.

	Tool No.	Bushing I.D.		Fits Hdl. #BU40B	Bushing Drive Fits Hdl. Tool No. I.D. O.D. #BU40B
	40-1A Driver	3/8	7/16	42-1, 42-2	41-7 Driver 1-1/8 1-1/4 42-3
	40-2 Driver			42-1, 42-2	41-7A Driver 1-3/16 1-5/16 42-3
					12 111 211 11 2 0 2 0 0 0 0 0
	40-3 Driver			42-1, 42-2	41-8 Driver 1-1/4 1-3/8 42-3
	40-5 Driver	9/16	5/8	42-1, 42-2	42-1 Handle 7/16 Dia. x 5" Long
	40-7 Driver	39/64	43/64)	42-1, 42-2	42-2 Handle 5/8 Dia. x 6" Long
		5/8		<i>,</i> -,	42-3 Handle 13/16 Dia. x 7-7/16" Long
	40-8 Driver			42-1, 42-2	43-1 Nut Fits 42-1 & 42-2
	40-9 Driver	11/16		42-1, 42-2	43-2 Nut Fits 42-3
	41-1 Driver	(47/64			40-7 will drive Chevrolet Six Water Pump
	11 1 2 111101		7/8		Bushing.
	41-2 Driver	13/16			41-1 will drive Chevrolet Six King Bolt
	41-3 Driver		63/64		Bushing.
	41-5 Driver				
			1		41-3 will drive Chevrolet Six King Bolt
	41-4 Driver	15/16	1-1/16	42-3	Bushing.
		1			(Size .866 knee action car and Chevrolet
	41-6 Driver	$\bar{1}$ -1/16			piston pin bushing.)
N	TI O DIIVCI	1 1/10	1 0/10	12 0	pioton pin bubini6.)

PHILLIPS

MAGNETIC

2680

METAL

SLOTHEAD

SCREW STARTERS FOR SLOTHEAD AND PHILLIPS HEAD SCREWS

These tools provide a positive gripping for starting screws in hard to get at places. The starters for slothead screws feature a spring locking blade while those for the Phillips type have a magnet head which holds the screw in place.

	Wt.	Blade Head with	Wt.		Wt.
		Nylon Handles			
				SS3—3-1/4"	
SS27— 5"	. 038	SSN9—9"	. 038	SS6—6-1/4"	. 056
SS29 9"					
SS3115"	. 109				

NYLON HANDLE



NO. K50 BRAKE ADJUSTING GAUGE

For measuring clearance between brake drum and shoe. 9 blades 4" long x 1/4" wide in the following thicknesses—.002; .004; .005; .006; .007; .008; .010; .012; .015.

WEIGHT 6 OZ. (BOX OF SIX)

NO. K51 GENERAL PURPOSE GAUGE

Especially for tappet and ignition work—the most popular gauge on the market. 12 blades 1-3/4" long x 1/4" wide, 10 blades 3" long x 1/2" wide. Short blades in following thicknesses—.011; .012; .013; .014; .015; .016; .017; .018; .019; .020; .022; .025. Long blades in following thicknesses—.002; .003; .004; .005; .006; .007; .008; .010; .013; .015.

WEIGHT 3/4 LB. (BOX OF SIX)

NO. K52 IGNITION GAUGE

Contains 11 blades 1-5/8" long x 1/4" wide and 3" point file for ignition, distributor points and spark plugs. Thickness of blades included as follows—.012; .013; .014; .015; .018; .020; .022; .025; ,028; .032 and .035.

WEIGHT 6 OZ. (BOX OF SIX)

NO. K53 UNIVERSAL MASTER GAUGE

Has full range of spacers—25 blades, each 3-5/16" long x 1/2" wide in following thicknesses—.0015; .002; .003; .004; .005; .006; .007; .008; .009; .010; .011; .012; .013; .014; .015; .016; .018; .020; .022; .024; .025; .028; .030; .032 and .035. WEIGHT 1-1/4 LBS. (BOX OF SIX)

NO. K54 STANDARD FEELER GAUGE

Contains 10 blades 3-5/16" long x 1/2" wide in following sizes—.002; .003; .004; .005; .006; .007; .008; .010; .012 and .015.

WEIGHT 1/2 LB. (BOX OF SIX)

NO. K55 EXTRA LONG FEELER GAUGE

Exceptionally useful for pistons, etc. Has 8 blades, each 9" long x 1/2" wide in the following sizes—.002; .003; .004; .005; .006; .008; .010; .015.

WEIGHT 1 LB. (BOX OF SIX)

NO. K56 SINGLE END FEELER GAUGE STOCK HOLDER

(Positive Adjustable Lock)

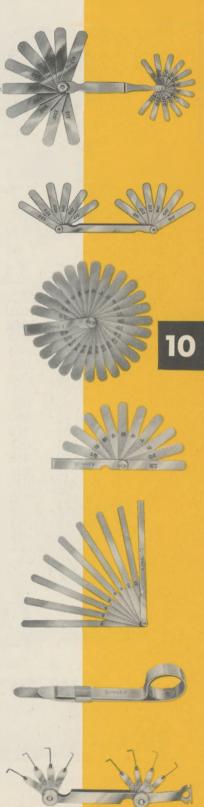
Any thickness of feeler gauge stock coils within the handle and can readily be pulled out for use. Any desired length of strip stock or standard 12" blades may be used. Positive sliding lock securely holds blades. Made from hard drawn; cold rolled steel and satin nickel plated.

LENGTH 4-1/2" WEIGHT 1-1/2 OZ.

NO. K57 SPARK PLUG GAUGE

Wire Spark Plug Feeler Gauge with electrode bending tool attached. Wires are .022, .025, .028, .030, .032, .035, .038, .040 by 1-5/8" long. Each wire is in a blade type holder with the size stamped on it for easy identification.

WEIGHT 7-1/2 OZ. (BOX OF SIX)





K58 FEELER GAUGE FOR FORDS

(11 BLADES)



EXTRA BLADES

This gauge has a .019 offset blade for setting intake valves and exhaust valves on 1954 Ford V-8 and Mercurys. Also has straight .016 blade for setting intake valves and straight .019 blade for setting exhaust valves on Ford 6-cylinder. Weight 1 lb. 6 oz. (Box of six) 45° Offset—.018. .019. .020. .021.

45° Offset—.018, .019, .020, .021, .024, .025, .026.

Straight—.015, .016, .018, .019.

Designed to fit practically any holder, the 3-5/16" blades are available in all the popular range of thicknesses and with hole for insertion in gauges. The 12" lengths are popular for use in the No. K56 Stock Holder which makes the blades usable to the end. Both 3-5/16" and 12" blades are packed 6 in a cellophane envelope. Sizes are listed below.

FEELER GAUGES—Pk. of 6 Wt. per 10 packages

1/2" x 3-1/2" Blades

LARGE FEELER GAUGES—Pk. of 6 Wt. per 10 packages

1/2" x 12" Blades

						·					
No.	Thkns.	Wt.	No.	Thkns.	Wt.	No.	Thkns.	Wt.	No.	Thkns.	Wt.
K0015	.0015	.006	K019	.019	.050	KL001	5 .0015	.019	KL016	.016	.159
K002	.002	.006	K019B	.019	.050	KL002	.002	.022	KL017	.017	.175
K003	.003	.009	K020	.020	.053	KL003		.031	KL018	.018	.184
K004	.004	.013	K021	.021	.056	KL004		.044	KL019	.019	.188
K005	.005	.016	K021B	.021	.056	KL005		.050	KL020	.020	.200
K006	.006	.019	K022	.022	.059	KL006		.066	KL021	.021	.213
K007	.007	.022		.024	.063	KL007		.069	KL022	.022	.225
K008	.008	.022	K025	.025	.066	KL008		.081	KL024	.024	.238
K009	.009	.028	K026	.026	.072	KL009		.094	KL025	.025	.245
K010	.010	.028	K028	.028	.075	KL010		.100	KL026	.026	.260
K011	.011	.031	K030	.030	.078	KL011		.113	KL028	.028	.288
K012	.012	.034	K032	.032	.084	KL012		.122			
K013	.013	.034	K035	.035	.094	KL013		.138	KL032	.032	.316
K014	.014	.038	K040_	.040	.106	KL014		.152	KL035	.035	.344
K015	.015	.041	K020B	.020	.053	KL015	.015	.156	KL040	.040	.400
K016	.016	.044	K024B	.024	.063						
K018	.018	.047	K025B	.025	.066						
K018B	.018	.047	K026B	.026	.072	l					





SIX-FOOT RULE

This handy six-foot rule has a white blade which gives both inside and outside measurements. The blade is easily replaced.

WEIGHT LBS. .235

197 PUTTY KNIFE



Especially handy for removing gaskets, grease, etc. The flexible steel blade and the oval handle give a quality appearance to this putty knife. The blade is 1-1/4" wide, 3-3/4" long, over-all length of the knife is 7-3/4".

WEIGHT LBS. .094

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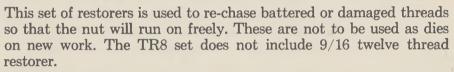


THREAD RESTORERS

TR1 for 11, 12, 13, 14, 16, 18, 20, 24 threads to inch. Weight lbs. .375. TR2 for 9, 10, 12, 16, 20, 27, 28, 32 threads to inch. Weight lbs. .338. These restorers are fast cutting and do a quick job in restoring battered or damaged threads. Available in the two above sizes, TR1 and TR2.

TR7 AND TR8

	TR7	TR8		1
Bolt Dia.	S.A.E. Thd. Per In.	U.S.S. Thd. Per In.	Hexagon Size	1
1/4	28	20	7/16	
5/16	24	18	1/2	TR8
3/8	24	16	9/16	
7/16	20	14	5/8	
1/2	20	13	3/4	
9/16	18			
5/8	18	11	15/16	
3/4	16	10	1-1/16	



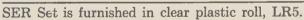
TR7 SET WEIGHT LBS. .403

TR8 SET WEIGHT LBS. .419

SER SCREW EXTRACTORS

Especially useful to remove broken studs or screws up to 1" in diameter. To remove the broken object a hole is drilled and the extractor with a left hand thread is screwed in until it grips and turns out the imbedded part.

No.	Length Overall	Size Drill to Use	For Screw and Bolt Sizes	Wt. Lb.
SE1 SE2 SE3 SE4 SE5 SE6 SER	2 2-3/8 2-11/16 3 3-3/8 3-3/4	5/64 7/64 5/32 1/4 17/64 13/32	3/16—1/4 1/4—5/16 5/16—7/16 7/16—9/16 9/16—3/4 3/4—1	.009 .015 .031 .059 .097 .200 .447



199 SHOP KNIFE

This knife serves as a multi-purpose tool for any mechanic's kit. Can be used for trimming upholstery, rubber, leather, or for cutting gaskets, shims, cardboard, etc.

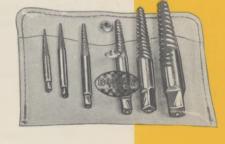
WEIGHT LBS. .253

199B PACKAGE OF BLADES

The 199 shop knife comes equipped with 5 blades incased in the handle. Extra blades are furnished in packages of 5 by part No. 199B.

WEIGHT LBS. .031

SECTION 10-PAGE 4



MANAMARI

TOOLS FOR MISCELLANEOUS REQUIREMENTS



CS1 CARBON SCRAPER



The flexibility of the tempered spring steel aids greatly in speeding up carbon scraping jobs. The scraper blade is 1" wide. WEIGHT LBS. .303

RC46 RING GROOVE CLEANER & CUTTING TOOL



In addition to the cleaning or scraping qualities this tool also is used as a groove deepening tool, has a positive cutter lock. Cutter blades: 3/32" - 1/8" - 5/32" - 3/16". WEIGHT LBS. .519

RC47

Performs the same function as the RC46 but has a special cutter blade which enables use on other models of cars. Cutter blades: 5/64" - 3/32" - 5/32" - 3/16". WEIGHT LBS. .525

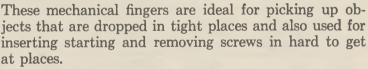
PISTON RING COMPRESSORS



Compressor RC41 is held with a friction lock device, whereas RC43A, RC44A, and RC45A are of the ratchet type. All of these compressors are made of the finest steel available. Easy operating mechanism equipped with wind-up spool with 1/4" square drive socket and key. The RC41 can be used on power mowers, garden and tractor motors.

Tool No.	Size	Length	Wt. Lbs.
RC41	1-1/2 to 3	Single Band	.306
RC43A	2-1/8 to 5	3-1/2	.738
RC44A Ratchet Type	3-1/2 to 7	3-1/8	.813
RC45A Ratchet Type	3-1/2 to 7	6-1/2	1.638

HANDY HOLDING TOOLS



No.	Reach	Overall Length	Wt. Lbs.
K4	4"	6-3/4	.113
K6	6"	8-3/4	.144
K8	8"	10-3/4	.175
KF	12"	14-3/4	.238

K26 POCKET MAGNETIC PICK-UP TOOL



The extra strong magnet in this tool will hold up to 3/4 of a pound. This tool is of standard pencil length.

WEIGHT LBS. .063

MAGNETIC HOLDING TOOLS

Tool No	o. Length	Wt. Lbs.
K1	9"	.091
K2	27" extended	.416

Extremely useful for extracting metal objects from tight places where a straight tool will not reach. The larger tool, K2, has a telescope type extension and will give extra length when needed.



NON-REVERSIBLE RATCHETS

This ratchet is made in 4 different size ratchet openings. Forged of high grade alloy steel with plated finish. These ratchets are designed to perform operations on refrigerant cylinders, shut-off and reducing valves. Also many operations on compressors, motors, etc.



Part No.	4 Pt. Ratchet Opening	4 Pt. Handle Opening	6 Pt. Handle Opening	4 Pt. Handle Opening	Length	Weight Lbs.
RF21	3/16	3/16	1/2	1/4	6	.338
RF22	1/4	3/16	1/2	1/4	6	.338
RF23	5/16	3/16	1/2	5/16	6	.338
RF25	3/8	-3/16	1/2	1/4	6	.322

RF45 REVERSIBLE RATCHET

Primarily designed for refrigeration work, this ratchet has easy action, light in weight, streamlined, sturdy construction, featuring ratchet lever that can be easily reversed with a touch of the thumb.

Part	Ratchet Opening	Handle Op	enings		Weight
No.	4 Pt.	4 Pt.	6 Pt.	Lgth.	Lbs.
RF45	1/4	3/16-1/4	1/2	6	.281

RF46 FLARING TOOL

This tool is made of high grade steel, carefully machined and heat treated for long, dependable life. Accommodates all common sizes of tubing. This tool is 3/8" wide, 6-1/2" long, has a capacity of 3/16" to 5/8" tubing. SHIPPING WEIGHT LBS. 2.038.

RF47 PINCH-OFF TOOL (patent pending)

This tool is used primarily to pinch off tubing as well as restoring the tubing to correct shape after the service work is complete. This tool features a quick operating, freeing, and locking action. The RF47 is 2-1/4" wide, 4" long, will accommodate tubing from 1/4" through 1/2" in diameter. SHIPPING WEIGHT LBS. .703.

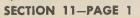
RF59 TUBE CUTTER

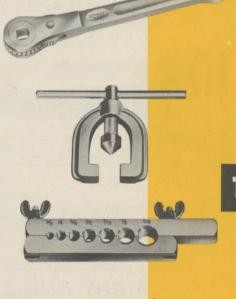
A convenient cutter for tubing from 1/8" to 1" O.D. Makes cutting easy with little or no burr. The RF59 is 2" wide, 5" long. SHIPPING WEIGHT LBS. .588. Reamer flips into position when needed.

1964 OPEN END WRENCH FOR SUPERIOR PACKLESS VALVE

This single head wrench is designed especially to fit the hexagon on the auxiliary body of the superior diaphragm packless valve. See Section 2 for complete specifications on wrench #1964.

Opening, 2 inches; Length, 12-1/4 inches; WEIGHT LBS. .950.







AIR CONDITIONING & REFRIGERATION TOOLS



BONNEY TUBE BENDERS

These are ideal for bending copper and other tubing to any desired shape without danger of collapsing the tubing. Made of special oil hardened spring steel, cadmium plated. The bell shaped end assures convenient insertion and removal of the tubing. These tube benders come in 6 sizes.

Part No.	Width (Bell End)	Tube Size	Length	Weight Lbs.
RF60	3/4	1/4	10	.156
RF61	7/8	5/16	10	.187
RF62	1	3/8	10	. 247
RF63	1-1/8	7/16	12	. 384
RF64	1-1/4	1/2	12	. 438
RF65	1-1/4	5/8	12	. 531

RF66 TUBE BENDER SET

Consists of one each of the above. See Section 16, Page 20 for description.

For information on all refrigeration tool sets see Section 16, Page 20.

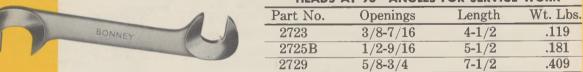
SPORLAN EXPANSION VALVE WRENCHES

These thin wrenches have a 30° head that enables easy removal of the power elements from the body of Sporlan expansion valves.

-	Bonney No.	Opening	Element No.	Fits Valve (Type)
_			2	D, L, O, Etc.
	1252	1-5/8	*6	M, V, †W (Small)
			7	††W (Large)
Ī	1236	1-1/8	5	G, K
Ī	1240	1-1/4	8	C, R, S, T
Ι	1244	1-3/8	4	E, B, U, J
	1248	1-1/2	3	P, H

RIGHT ANGLE WRENCHES

HEADS AT 90° ANGLES FOR SERVICE WORK



FLARE NUT WRENCH

Designed especially for making flare nut adjustments, these wrenches are drop forged, chromium plated, with polished heads. Designed long and thin with paneled handles for comfortable grip. Heads are 12 point.

Part No.	Opening Small Head	Opening Large Head	Across Small Head	Across Large Head	Width of Slot, Small Head	Width of Slot, Large Head	Length	Weight
RF54	3/4	1	1-7/32	1-5/8	17/32	11/16	8	. 456
RF54A	3/4	7/8	1-7/32	1-5/8	17/32	5/8	8	.488
RF55	7/8	1-1/8	1-13/32	1-27/32	5/8	25/32	9-1/2	.788
RF55A	7/8	1	1-13/32	1-27/32	5/8	11/16	9-1/2	. 856



P319 SEPARATOR

Length 11-1/4 inches. Jaw opening 1-1/8 inches. Wt. 1.625 lbs. Make quick work of removing pulleys in tight places with this Bonney fork wedged separator. The tool is inserted between the pulley hub and the compressor or motor housing after the set screw has been removed. A few light taps on the end of the separator brings the pulley off the shaft.

Prong

No.

Designed for use with RF22 and RF45 Ratchets shown on page 1 of this section or any ratchet handle with 1/4" opening. RF71 fits Sporlan valves packing gland nut.

RF17 RF18	1/8 1/8	$7/64 \\ 7/64$	$\frac{21/64}{21/64}$	$\frac{15/32}{9/16}$	2 2
No.	Prong Depth	Prong Width		Outside Diam.	
RF6 RF16 RF71 RF72 RF73	1/8 1/8 3/32 1/8 1/8	1/8 1/8 3/32 1/8 1/8	3/8 $21/64$ $5/16$ $21/64$ $3/8$	5/8 $15/32$ $7/16$ $15/32$ $5/8$	1-3/8 1-3/4 1-5/8 1-11/16 1-11/16

Prong Inside Outside Overall

Depth Width Diam. Diam. Length



This Bonney socket was designed specially for application on Kerotest valve packing nut.

	Obround	Opening	Outside	
No.	Length	Width	Diameter	Length
RF67	1/2	3/8	5/8	1-9/16

RF67
KEROTEST
VALVE SOCKET

11

Made of select steel, nickle chrome plated. For use with any ratchet having 1/4" opening or specifically Bonney Ratchets #RF22 and RF45. Used for valve stems. Available in both the "T" handle and 1/4" male drive.

	Size Square	Outside 2	Diameter	
No.	Opening	Nose	Shank	Length
RF10	3/16	27/64	1/2	1-7/8
RF11	7/32	27/64	1/2	1-7/8
RF12	1/4	1/2	1/2	1-7/8
RF13	5/16	9/16	9/16	1-7/8
RF14	3/8	5/8	5/8	1-7/8

No.	Size Square Opening	Outside :	Diameter Shank	Length
RF2 RF5 RF3 RF4 RF7	3/16 $7/32$ $1/4$ $5/16$ $3/8$	$\begin{array}{c} 27/64 \\ 1/2 \\ 1/2 \\ 9/16 \\ 31/32 \end{array}$	$\begin{array}{c} 1/2 \\ 1/2 \\ 1/2 \\ 1/2 \\ 9/16 \\ 31/32 \end{array}$	1-3/8 1-3/8 1-3/8 1-3/8 1-3/8

"T" HANDLE VALVE STEM SOCKET

RF10-11

VALVE SVEM
SOCKET
1/4" MALE DR.

RF2-3-4-5-7

These adaptors are used to convert drive sizes when the correct size is not readily available.

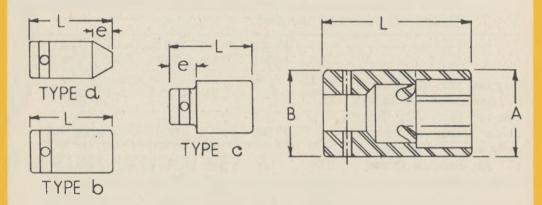
No.	Plug End	Drive End
RF49	1/4	1/4
RF41	1/4	3/8
4216	1/4	3/8
4217	3/8	1/4

RF41 RF49 RATO 2T PLUG ADARTORS

POWER & IMPACT SOCKETS—ATTACHMENTS



Bonney's line of Impact-power sockets includes drive sizes from 3/8 inch to 3/4 inch with deep length in both 1/2 inch and 3/4 inch square drives. At the bottom of page 3 you will find "O" rings and pins for the 3/4 drive. The sockets and attachments shown on these pages are not guaranteed due to the unusual requirements.



Nominal Open- ing	Part No.		Туре	Socket End O.D. A	Drive End O.D. B	Nose Length e	Length L	Weight Lbs.
	3/8 IN.	S	QUARE	DRIVE RI	EGULAR LEN	IGTH SIX	POINT	
3/8	P-2212		a	.552	11/16	5/16	7/8	.062
7/16	P-2214		a	.633	11/16	5/16	7/8	.060
1/2	P-2216		b	3/4	3/4		7/8	.070
9/16	P-2218		b	.791	.791		7/8	.083
5/8	P-2220		b	7/8	7/8		7/8	.118

1/2 IN SOLIABE DRIVE REGULAR LENGTH SIX POINT

Ref.: Fed. Spec. GGG-W-660, Type 1, Class 1, Style A.

		1/2 IN.	SQUAKE	DKIVE	REGULAR I	ENGIN SIX	POINT	
	3/8	P-3212	a	.605	7/8	11/16	1-1/2	.160
7,	/16	P-3214	a	.690	7/8	11/16	1-1/2	.154
	1/2	P-3216	a	.773	15/16	11/16	1-1/2	.23
9,	/16	P-3218	a	.854	15/16	11/16	1-1/2	.25
	5/8	P-3220	a	.941	1	11/16	1-1/2	.23
11,	/16	P-3222	a	1.022	1.022		1-1/2	.253
	3/4	P-3224	b	1-1/8	1-1/8		1-1/2	.279
13	/16	P-3226	b	1-3/16	1-3/16	* * * *	1-1/2	.305
,	7/8	P-3228	b	1.273	1.273		1-1/2	.388
15,	/16	P-3230	b	1-3/8	1-3/8		1-3/4	.482
1		P-3232	b	1-7/16	1-7/16	* * * * *	1-3/4	.518
1-1	/16	P-3234	b ·	1.522	1.522		2	.689
1-1	/8	P-3236	b	1.605	1.605	v a + + +	2	.677
1-3	/16	P-3238	b	1-11/16	1-11/16		2	.795
1-1	/4	P-3240	b	1.774	1.774		2	.908
Re	f.: Fe	d. Spec. G	GG-W-660). Type	1. Class 1. S	Style A.		





POWER & IMPACT SOCKETS—ATTACHMENTS

Nominal Open- ing	Part No.	Type	Socket End O.D. A	Drive End O.D. B	Nose Length e	Length L	Weight Lbs.
	1/2 IN.	SQUA	RE DRIVE	DEEP LENG	TH SIX P	OINT	
3/8	P-3212L	a	.605	7/8	11/16	3-1/4	.358
7/16	P-3214L	a	.690	7/8	11/16	3-1/4	.381
1/2	P-3216L	a	.773	15/16	11/16	3-1/4	.432
9/16	P-3218L	a	.854	15/16	11/16	3-1/4	.427
5/8	P-3220L	a	.941	1	11/16	3-1/4	.468
11/16	P-3222L	b	1.022	1.022		3-1/4	.524
3/4	P-3224L	b	1-1/8	1-1/8		3-1/4	.577
13/16	P-3226L	b	1-3/16	1-3/16		3-1/4	.617
7/8	P-3228L	b	1.273	1.273		3-1/2	.836
15/16	P-3230L	b	1-3/8	1-3/8		3-1/2	.919
1	P-3232L	b	1-7/16	1-7/16		3-1/2	.965
	3/4 IN. S	QUARE	DRIVE RI	EGULAR LEN	NGTH SIX	POINT	
3/4	I-5224	a	1-1/4	1-5/8	5/8	2-1/4	.903
13/16	I-5226	a	1-3/8	1-5/8	5/8	2-1/4	.923
7/8	I-5228	a	1-1/2	1-5/8	5/8	2-1/4	.993
15/16	I-5230	a	1-9/16	1-5/8	5/8	2-3/8	.85
1	I-5232	b	1-5/8	1-5/8		2-3/8	.89
1-1/16	I-5234	b	1-11/16	1-11/16		2-1/2	1.05
1-1/8	I-5236	b	1-3/4	1-3/4		2-1/2	1.02
1-3/16	I-5238	b	1-7/8	1-7/8		2-1/2	1.48
1-1/4	I-5240	b	2	2		2-5/8	1.47
1-5/16	I-5242	b	2-1/16	2-1/16		2-5/8	1.77
1-3/8	I-5244	b	2-1/8	2-1/8		2-3/4	1.66
1-7/16	I-5246	b	2-1/4	2-1/4		2-3/4	2.17
1-1/2	I-5248	b	2-5/16	2-5/16		2-3/4	2.22
	3/4 IN.	SQUA	RE DRIVE	DEEP LENG	TH SIX PO	DINT	
3/4	I-5224L	a	1-1/4	1-5/8	5/8	3-1/2	1.51
13/16	I-5226L	a	1-3/8	1-5/8	5/8	3-1/2	1.51
7/8	I-5228L	a	1-1/2	1-5/8	5/8	3-1/2	1.46
15/16	I-5230L	a	1-9/16	1-5/8	5/8	3-1/2	1.41
1	I-5232L	b	1-5/8	1-5/8		3-1/2	1.35
1-1/16	I-5234L	b	1-11/16	1-11/16		3-1/2	1.42
1-1/8	I-5236L	b	1-3/4	1-3/4		3-1/2	1.36
1-1/4	I-5240L	b	2	2		3-3/4	2.07
1-1/2	I-5248L	b	2-5/16	2-5/16		3-3/4	2.87
)//L = .	3/4 IN. SQ			GULAR LENG Budd Wheels		POINT	
13/16	I-5426	b	1-5/8	1-5/8		2-1/4	1.01





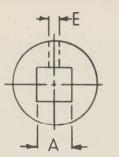
12

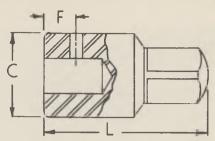


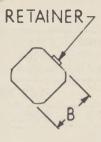


BONNEY POWER ATTACHMENTS



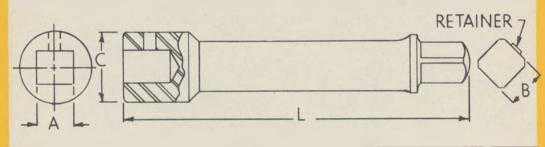








Part No.	Female A	Male B	Length	O.D. C	Weight Lbs.	Lock Type
AP-23	3/8	1/2	1-1/2	1	.20	Pin
Ref.: Fed.	Spec. GGG-V	V-660, Type	e 3.			
AP-32	1/2	3/8	1-1/2	1	.26	Pin
AP-43	5/8	1/2	1-53/64	1-1/8	.30	Pin
Ref.: Fed.	Spec. GGG-V	V-660, Type	e 3.			
AP-53	3/4	1/2	2-5/32	1-5/8	.64	Pin
Ref.: Fed.	Spec. GGG-V	V-660, Type	e 3.			



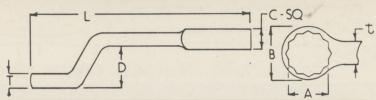
Part No.	Square Drive	Length	Ext. B	O.D. C	Weight Lbs.	Lock Type
EP-2-3	3/8	3	3/8	11/16	.13	Pin
EP-2-6	3/8	6	3/8	11/16	.25	Pin
Ref.: Fed. S	Spec. GGG-W	-660, Type 2	2.			
EP-3-5	1/2	5	1/2	1-1/16	.40	Pin
EP-3-10	1/2	10	1/2	1-1/16	.91	Pin
Ref.: Fed. S	Spec. GGG-W	-660, Type 2	2.			
EP-5-4	3/4	3-1/2	3/4	1-3/4	1.20	Pin
EP-5-10	3/4	10	3/4	1-3/4	3.43	Pin
Ref.: Fed. S	Spec. GGG-W	7-660, Type 2	2.			



" O	" RINGS	PINS			
Ring Part No.	Used on Socket Part No.	Pin Part No.	Used on Socket Part No.		
RIB-28	I-5224 thru I-5242	SP-22	I-5224 thru I-5242		
RIB-32	I-5244 thru I-5254	SP-27	I-5244 thru I-5254		
(Both r	egular and deep)	(Both r	regular and deep)		

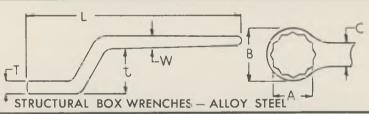


HEAVY DUTY WRENCHES



STRIKING	FACE	BOX	WRENCHES - ALLOY STEEL	-
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Part No.	OPENING A	В	С	D	L	Т	Weight Lbs.
8807	1-1/16	1-11/16	1-5/32	1-5/16	10-1/2	13/16	2.125
8807A	1-1/8	1-11/16	1-5/32	1-5/16	10-1/2	13/16	2.140
8808	1-1/4	2	1-5/32	1-3/8	11	7/8	2.453
8808A	1-5/16	2	1-5/32	1-9/16	11	7/8	2.563
8809	1-7/16	2-1/4	1-5/16	1-1/2	11-1/2	1	3.400
8809A	1-1/2	2-1/4	1-5/16	1-1/2	11-1/2	1	3.413
8810	1-5/8	2-1/2	1-1/2	1-9/16	12	1-1/16	4.488
8810A	1-11/16	2-1/2	1-1/2	1-9/16	12	1-1/16	4.288
8811	1-13/16	2-13/16	1-9/16	1-3/4	12-1/2	1-1/8	5.575
8811A	1-7/8	2-13/16	1-9/16	1-3/4	12-1/2	1-1/8	5.550
8812	2	3-15/32	1-9/16	1-13/16	13-1/2	1-3/8	6.112
8813	2-3/16	3-15/32	1-3/4	2	13-1/2	1-3/8	8.613
8813A	2-1/4	3-15/32	1-13/16	1-15/16	13-1/2	1-3/8	8.613
8814	2-3/8	3-29/32	1-3/4	2-1/2	14-1/2	1-9/16	9.594
8815	2-9/16	3-29/32	1-15/16	2-1/4	14-1/2	1-9/16	10.575
8815A	2-5/8	3-29/32	1-15/16	2-1/4	14-1/2	1-9/16	10.487
8816	2-3/4	4-21/32	2	2-1/4	16	1-13/16	10.813
8816B	2-15/16	4-21/32	2-1/8	2-5/16	16	1-13/16	15.094
8817A	3	4-15/16	2-1/4	2-9/16	16-1/2	2	17.775
8817	3-1/8	4-15/16	2-1/4	2-9/16	16-1/2	2	17.344

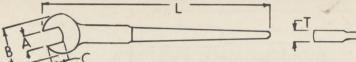


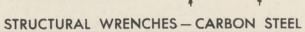
		011	COCIONAL	DOX WILL	ITCITEG	ALLO I OIL			
	Part No.	OPENING A	В	С	L	Т	t	W	Weight Lbs.
1	8907	1-1/16	1-11/16	3/4	15-1/2	13/16	1-5/16	3/4	1.525
Ī	8907A	1-1/8	1-11/16	3/4	15-1/2	13/16	1-5/16	3/4	1.562
Ī	8908	1-1/4	1-15/16	13/16	17	7/8	1-7/16	13/16	2.058
Ī	8908A	1-5/16	1-15/16	13/16	17	7/8	1-7/16	13/16	2.058
Ī	8909	1-7/16	2-3/16	1	20-1/2	15/16	1-7/16	1	3.475
Ī	8909A	1-1/2	2-3/16	15/16	21	1	1-5/8	1	3.670
Ī	8910	1-5/8	2-11/16	1-1/16	22	1-1/16	1-7/8	1	5.900
Ī	8910A	1-11/16	2-11/16	1	21-3/4	1	1-9/16	1	4.625
Ī	8911	1-13/16	2-11/16	1-1/8	23	1-1/8	1-3/4	1-1/8	5.463
Ī	8911A	1-7/8	2-13/16	1-1/8	23	1-1/8	1-3/4	1-1/8	5.463
-	8912	2	2-15/16	1-1/8	24	1-1/4	1-13/16	1-1/8	6.063
-	8913	2-3/16	3-1/4	1-1/4	26	1-3/8	2	1-1/4	8.263
Ī	8914	2-3/8	3-5/8	1-1/4	28	1-1/2	2	1-1/4	8.283
	8915	2-9/16	3-13/16	1-5/16	29-1/4	1-5/8	2-1/4	1-5/16	8.013
-	8916	2-3/4	4-1/8	1-5/16	28-3/4	1-11/16	2-5/16	1-5/16	11.700
-	Ref.:	Fed. Spec.	GGG-W-	636a, Typ	e 12.				



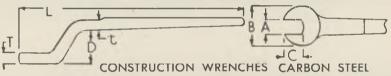






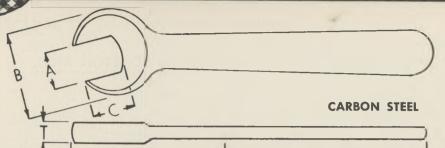


Part No.	OPENING A	FED. SPEC.	GGG-W-636	TYPE IX	CLASS I	Wt. Lbs.
110.						
201A	7/16	1-3/16	9/16	9-1/2	3/8	. 27
201	1/2	1-3/16	5/8	9-1/2	3/8	.27
201B	9/16	1-3/16	11/16	9-1/2	3/8	.27
203A	5/8	1-9/16	25/32	12	7/16	. 53
203	11/16	1-9/16	27/32	12	7/16	. 53
204A	3/4	1-9/16	29/32	12	7/16	. 53
205A	13/16	2-3/32	31/32	14-1/2	17/32	1.0
205	7/8	2-3/32	31/32	14-1/2	17/32	1.0
206	31/32	2-3/32	1-1/16	14-1/2	17/32	1.0
206B	1	2-3/32	1-1/16	14-1/2	17/32	1.0
207	1-1/16	2-1/2	1-1/4	17-1/4	19/32	1.7
207A	1-1/8	2-1/2	1-1/4	17-1/4	19/32	1.7
208	1-1/4	2-29/32	1-3/8	19	21/32	2.6
208A	1-5/16	2-29/32	1-3/8	19	21/32	2.6
209	1-7/16	3-5/16	1-9/16	21	23/32	3.7
209A	1-1/2	3-5/16	1-9/16	21	23/32	3.7
210	1-5/8	3-11/16	1-13/16	23	7/8	5.3
210A	1-11/16	3-11/16	1-13/16	23	7/8	5.3
211	1-13/16	4	2-5/16	25	15/16	7.3
211A	1-7/8	4	2-7/16	25	15/16	7.3
212	2	4	2-9/16	25	15/16	7.3



Part No. OPENING A B C D L T Wt. Lbs. 901A 7/16 1-3/16 11/16 3/4 9-1/2 11/32 .32 901 1/2 1-3/16 11/16 3/4 9-1/2 11/32 .32 901B 9/16 1-3/16 11/16 3/4 9-1/2 11/32 .32 903A 5/8 1-9/16 7/8 13/16 12 7/16 .63 903 11/16 1-9/16 7/8 13/16 12 7/16 .63 904A 3/4 1-9/16 7/8 13/16 12 7/16 .63 905A 13/16 2 1-1/8 15/16 14-1/2 17/32 1.2 905 7/8 2 1-1/8 15/16 14-1/2 17/32 1.2 906 31/32 2 1-1/8 15/16 14-1/2 17/32 1.2 906B 1 2 1-1/8			001101		21101120 07			
901 1/2 1-3/16 11/16 3/4 9-1/2 11/32 32 901B 9/16 1-3/16 11/16 3/4 9-1/2 11/32 32 903A 5/8 1-9/16 7/8 13/16 12 7/16 63 903 11/16 1-9/16 7/8 13/16 12 7/16 63 904A 3/4 1-9/16 7/8 13/16 12 7/16 63 905A 13/16 2 1-1/8 15/16 14-1/2 17/32 1.2 905 7/8 2 1-1/8 15/16 14-1/2 17/32 1.2 906 31/32 2 1-1/8 15/16 14-1/2 17/32 1.2 906B 1 2 1-1/8 15/16 14-1/2 17/32 1.2 907 1-1/16 2-1/4 1-9/32 1-1/16 17 5/8 1.9 908 1-1/4 3 1-5/8			В	С	D	L	Т	
901B 9/16 1-3/16 11/16 3/4 9-1/2 11/32 32 903A 5/8 1-9/16 7/8 13/16 12 7/16 .63 903 11/16 1-9/16 7/8 13/16 12 7/16 .63 904A 3/4 1-9/16 7/8 13/16 12 7/16 .63 905A 13/16 2 1-1/8 15/16 14-1/2 17/32 1.2 905 7/8 2 1-1/8 15/16 14-1/2 17/32 1.2 906 31/32 2 1-1/8 15/16 14-1/2 17/32 1.2 906B 1 2 1-1/8 15/16 14-1/2 17/32 1.2 907 1-1/16 2-1/4 1-9/32 1-1/16 17 5/8 1.9 907A 1-1/8 2-1/4 1-9/32 1-1/16 17 5/8 1.9 908 1-1/4 3 1-5/8 <th>901A</th> <th>7/16</th> <th>1-3/16</th> <th>11/16</th> <th>3/4</th> <th>9-1/2</th> <th>11/32</th> <th></th>	901A	7/16	1-3/16	11/16	3/4	9-1/2	11/32	
903A 5/8 1-9/16 7/8 13/16 12 7/16 63 903 11/16 1-9/16 7/8 13/16 12 7/16 63 904A 3/4 1-9/16 7/8 13/16 12 7/16 63 905A 13/16 2 1-1/8 15/16 14-1/2 17/32 1.2 905 7/8 2 1-1/8 15/16 14-1/2 17/32 1.2 906 31/32 2 1-1/8 15/16 14-1/2 17/32 1.2 906B 1 2 1-1/8 15/16 14-1/2 17/32 1.2 907 1-1/16 2-1/4 1-9/32 1-1/16 17 5/8 1.9 907A 1-1/8 2-1/4 1-9/32 1-1/16 17 5/8 1.9 908 1-1/4 3 1-5/8 1-1/4 19-1/2 3/4 2.8 908A 1-5/16 3 1-5/8	901	1/2	1-3/16	11/16	3/4	9-1/2	11/32	. 32
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	901B	9/16	1-3/16	11/16	3/4			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	903A	5/8	1-9/16	,				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	903	11/16	1-9/16				, , , , , , , , , , , , , , , , , , , ,	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	904A	3/4	1-9/16	7/8				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	905A	13/16		1-1/8	15/16			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	905	7/8		1-1/8				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	906	31/32		1-1/8	15/16			
907A 1-1/8 2-1/4 1-9/32 1-1/16 17 5/8 1.9 908 1-1/4 3 1-5/8 1-1/4 19-1/2 3/4 2.8 908A 1-5/16 3 1-5/8 1-1/4 19-1/2 3/4 2.8 909 1-7/16 3 1-5/8 1-1/4 19-1/2 3/4 2.8 909A 1-1/2 3 1-5/8 1-1/4 19-1/2 3/4 2.8 910 1-5/8 3-3/8 1-15/16 1-7/16 23 13/16 5.6 910A 1-11/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6	906B	1	2	1-1/8	15/16		17/32	
908 1-1/4 3 1-5/8 1-1/4 19-1/2 3/4 2.8 908A 1-5/16 3 1-5/8 1-1/4 19-1/2 3/4 2.8 909 1-7/16 3 1-5/8 1-1/4 19-1/2 3/4 2.8 909A 1-1/2 3 1-5/8 1-1/4 19-1/2 3/4 2.8 910 1-5/8 3-3/8 1-15/16 1-7/16 23 13/16 5.6 910A 1-11/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6	907	1-1/16	2-1/4					
908A 1-5/16 3 1-5/8 1-1/4 19-1/2 3/4 2.8 909 1-7/16 3 1-5/8 1-1/4 19-1/2 3/4 2.8 909A 1-1/2 3 1-5/8 1-1/4 19-1/2 3/4 2.8 910 1-5/8 3-3/8 1-15/16 1-7/16 23 13/16 5.6 910A 1-11/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6	907A	1-1/8	2-1/4					
909 1-7/16 3 1-5/8 1-1/4 19-1/2 3/4 2.8 909A 1-1/2 3 1-5/8 1-1/4 19-1/2 3/4 2.8 910 1-5/8 3-3/8 1-15/16 1-7/16 23 13/16 5.6 910A 1-11/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6	908	1-1/4		1-5/8				
909A 1-1/2 3 1-5/8 1-1/4 19-1/2 3/4 2.8 910 1-5/8 3-3/8 1-15/16 1-7/16 23 13/16 5.6 910A 1-11/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6	908A	1-5/16	3	1-5/8				
910 1-5/8 3-3/8 1-15/16 1-7/16 23 13/16 5.6 910A 1-11/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6								
910A 1-11/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6								
911 1-13/16 3-3/8 1-15/16 1-7/16 23 13/16 5.6 911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6		,						
911A 1-7/8 3-3/8 2 1-7/16 23 13/16 5.6				, , , , , , , , , , , , , , , , , , , ,				
					,			
912 2 3-3/8 2-1/8 1-7/16 23 13/16 5.6					The same of the sa			
	912	2	3-3/8	2-1/8	1-7/16	23	13/16	5.6





FINISHED IN BLACK ENAMEL, BRIGHT HEADS



BONNEY

Part No.	OPENING A	В	C	L	Т	Wt. Lbs.
00	5/16	5/8	23/64	3-1/2	3/16	.07
700	3/8	13/16	29/64	4	9/32	. 09
701	7/16	1-3/16	9/16	4-5/8	5/16	.19
1	1/2	1	37/64	4-5/8	5/16	. 13
702	9/16	1-3/16	11/16	5-1/2	21/64	. 21
703	5/8	1-3/8	51/64	6-3/8	11/32	. 30
3	11/16	1-3/8	51/64	6-3/8	11/32	. 30
704	3/4	1-9/16	27/32	7-1/4	3/8	. 38
705	13/16	1-7/8	15/16	8-1/8	7/16	. 60
5	7/8	1-7/8	15/16	8-1/8	7/16	. 60
6	31/32	2-1/8	1-1/16	9-1/4	7/16	. 95
706		2-1/8	1-1/8	9-1/4	7/16	. 95
707	1-1/16 1-1/8	2-3/16 2-3/16	1-3/16 1-1/4	10-1/2 10-1/2	9/16	1.30
8	1-1/8	$\frac{2-3/10}{2-3/4}$	1-7/16	10-1/2	9/16 19/32	1.30
708A	1-1/4	2-3/4	1-1/2	12	$\frac{19/32}{19/32}$	$\begin{array}{c} 2.1 \\ \hline 2.1 \end{array}$
9	1-7/16	3-1/8	1-5/8	13-1/2	5/8	2.5
709	1-1/2	3-1/8	1-11/16	13-1/2	5/8	2.5
10	1-5/8	3-1/2	1-15/16	15	7/8	3.7
10A	1-11/16	3-1/2	2	15	7/8	3.7
11	1-13/16	3-3/4	2-1/16	16-1/2	15/16	4.3
11A	1-7/8	3-3/4	2-1/8	16-1/2	15/16	4.3
12	2	4-1/4	2-3/8	18-1/4	1	6.2
12A	2-1/16	4-1/4	2-1/2	18-1/4	1	6.2
13	2-3/16	4-7/16	2-5/8	20	1-1/16	7.6
13A	2-1/4	4-7/16	2-11/16	20	1-1/16	7.6
14	2-3/8	5	2-11/16	22	1-1/8	9.9
14A	2-7/16	5	2-13/16	22	1-1/8	9.9
15	2-9/16	5-1/4	2-13/16	24	1-3/16	11.5
15A	2-5/8	5-1/4	2-15/16	24	1-3/16	11.5
16	2-3/4	6	2-7/8	27	1-1/4	14.5
16B	2-13/16	6	3	27	1-1/4	14.5
16A	2-15/16	6	3-1/8	27	1-1/4	14.5
17A 17	3	6-7/16	3-1/8	30	1-1/2	20.0
	3-1/8	6-7/16	3-1/4	30 34	1-1/2	20.0
18A 18	$\frac{3-3/8}{3-1/2}$	$\frac{7-5/16}{7-5/16}$	$\frac{3-1/4}{3-5/16}$	34	$\frac{1-9/16}{1-9/16}$	28.4
19B	3-3/4	8-3/8	3-1/2	38	$\frac{1-9/10}{1-5/8}$	34.5
19	3-7/8	8-3/8	3-1/2	38	1-5/8	34.5
19C	4-1/8	8-3/8	3-5/8	38	1-5/8	34.5
19A	4-1/4	8-3/8	3-3/4	38	1-5/8	34.5
20B	$\frac{11/1}{4-1/2}$	10	4	42	2	52.0
20	4-5/8	10	4-1/4	42	2	52.0
20A	5	10	4-3/8	42	2	52.0
		GG-W-636a, 7				

SECTION 13-PAGE 3

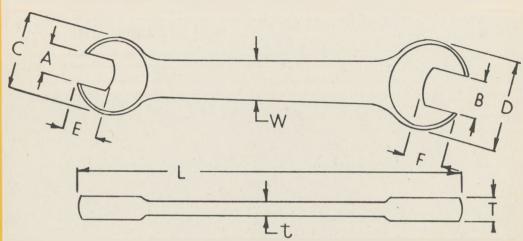
OPEN END DOUBLE HEAD WRENCHES



DOUBLE HEAD OPEN END WRENCHES - CARBON STEEL

FINISHED IN BLACK ENAMEL, BRIGHT HEADS





Part No.	Oper A	nings B	C	D	E	F	L	Т	Wt. Lbs.
721	5/16	3/8	5/8	13/16	11/32	13/32	4	1/4	.08
723	3/8	7/16	27/32	1-1/32	13/32	15/32	4-5/8	9/32	.13
725	7/16	1/2	1	1-1/4	15/32	9/16	5-1/2		.19
725A	7/16	9/16	1	1-1/4	15/32	5/8	5-1/2		. 19
725B	1/2	9/16	1	1-1/4	9/16	5/8	5-1/2		. 19
25	1/2	19/32	1	1-1/4	9/16	21/32	5-1/2		.19
727	9/16	5/8	1-3/16	1-3/8	5/8	11/16	6-1/2		. 28
27	19/32	11/16	1-3/16	1-3/8	21/32	3/4	6-1/2		.28
27B	5/8	11/16	1-3/16	1-3/8	11/16	3/4	6-1/2		.28
729	5/8	3/4	1-3/8	1-9/16	11/16	13/16	7-1/2		. 39
29B	11/16	3/4	1-3/8	1-9/16	3/4	13/16	7-1/2	3/8	. 39
29C	11/16	13/16	1-3/8	1-9/16	3/4	7/8	7-1/2	3/8	. 39
731	3/4	13/16	1-3/4	1-7/8	7/8	15/16	8-1/2	*	. 55
731A	3/4	7/8	1-3/4	1-7/8	7/8	1	8-1/2	3/8	. 55
731B	13/16	7/8	1-3/4	1-7/8	15/16	1	8-1/2	3/8	. 55
33A	7/8	15/16	1-3/4	2	15/16	1	9-1/2	7/16	. 84
733	7/8	1	1-3/4	2		1-1/16	9-1/2		. 84
33C	15/16	1	1-3/4	2	1	1-1/16	9-1/2	7/16	. 84
34	7/8	1-1/16	2	2-1/4		1-1/8	10-3/4	1/2	1.2
34A	15/16	1-1/16	2	2-1/4	1	1-1/8	10-3/4	1/2	1.2
735	1	1-1/8	2	2-1/4	1-1/16	1-3/16	10-3/4	1/2	1.2
36B	1-1/16	1-1/8	2-1/4	2-5/16	1-1/8	1-3/16	12	9/16	1.5
37	1-1/16	1-1/4	2-1/4	2-5/16	1-1/8	1-5/16	12	9/16	1.5
737	1-1/8	1-1/4	2-1/4	2-5/16	1-3/16	1-5/16	12	9/16	1.5
37A	1-1/8	1-5/16	2-1/4	2-5/16	1-3/16	1-3/8	12	9/16	1.5
39B	1-1/4	1-5/16	2-5/8	3	1-5/16	1-3/8	13-1/2	5/8	2.3
39	1-1/4	1-7/16	2-5/8	3	1-5/16	1-1/2	13-1/2	5/8	2.3
39C	1-3/8	1-7/16	2-5/8	3	1-7/16	1-1/2	13-1/2	5/8	2.3
41B	1-1/2	1-5/8	3	3-1/2	1-5/8	1-7/8	15-3/4	3/4	3.5
44A	1-11/16	1-7/8	4	4-1/2	2-1/4	2-1/2	19	13/16	7.5
47	2	2-3/16	4-1/8	4-5/8	2-3/8	2-3/4		1-1/32	9.5
49	2-3/16	2-3/8	4-3/8	5-3/8	2-1/2	2-3/4	22	1-1/8	12.5
49A	2-1/4	2-7/16	4-3/8	5-3/8	2-5/8	2-7/8	22	1-1/8	12.5



SINGLE HEAD THIN CHECK-NUT WRENCHES - CARBON STEEL

Part No. OPENING A B C L T Wt. Lbs. 601A 7/16 1-1/16 9/16 4 5/32 .07 601 1/2 1-1/16 9/16 4 5/32 .07 602A 9/16 1-1/4 5/8 4-1/2 3/16 .11 602 19/32 1-1/4 21/32 4-1/2 3/16 .11 603A 5/8 1-1/2 11/16 5-1/8 3/16 .15 603 11/16 1-1/2 3/4 5-1/8 3/16 .15 604A 3/4 1-11/16 13/16 5-7/8 7/32 .19 604A 25/32 1-11/16 27/32 5-7/8 7/32 .19 605A 13/16 1-7/8 7/8 6-5/8 1/4 .30 605 7/8 1-7/8 29/32 6-5/8 1/4 .30 606 31/32 2 1-1/32 7-1/2 9/32<	211/	GLE READ IN	III CHECK-II	OT WKENCH	EO CARDO		
601 1/2 1-1/16 9/16 4 5/32 .07 602A 9/16 1-1/4 5/8 4-1/2 3/16 .11 602 19/32 1-1/4 21/32 4-1/2 3/16 .11 603A 5/8 1-1/2 11/16 5-1/8 3/16 .15 603 11/16 1-1/2 3/4 5-1/8 3/16 .15 603 11/16 1-1/2 3/4 5-1/8 3/16 .15 604A 3/4 1-11/16 13/16 5-7/8 7/32 .19 604 25/32 1-11/16 27/32 5-7/8 7/32 .19 605A 13/16 1-7/8 7/8 6-5/8 1/4 .30 605 7/8 1-7/8 29/32 6-5/8 1/4 .30 606 31/32 2 1-1/32 7-1/2 9/32 .38 606B 1 2 1-1/16 7-1/2 9/32			В	С	L	Т	
602A 9/16 1-1/4 5/8 4-1/2 3/16 .11 602 19/32 1-1/4 21/32 4-1/2 3/16 .11 603A 5/8 1-1/2 11/16 5-1/8 3/16 .15 603 11/16 1-1/2 3/4 5-1/8 3/16 .15 604A 3/4 1-11/16 13/16 5-7/8 7/32 .19 604 25/32 1-11/16 27/32 5-7/8 7/32 .19 605A 13/16 1-7/8 7/8 6-5/8 1/4 .30 605 7/8 1-7/8 29/32 6-5/8 1/4 .30 606 31/32 2 1-1/32 7-1/2 9/32 .38 606B 1 2 1-1/16 7-1/2 9/32 .38 607 1-1/16 2-5/16 1-3/16 8-1/2 5/16 .60 607A 1-1/8 2-5/16 1-3/16 8-1/2	601A	7/16	1-1/16	9/16	4	5/32	.07
602 19/32 1-1/4 21/32 4-1/2 3/16 .11 603A 5/8 1-1/2 11/16 5-1/8 3/16 .15 603 11/16 1-1/2 3/4 5-1/8 3/16 .15 604A 3/4 1-11/16 13/16 5-7/8 7/32 .19 604 25/32 1-11/16 27/32 5-7/8 7/32 .19 605A 13/16 1-7/8 7/8 6-5/8 1/4 .30 605 7/8 1-7/8 29/32 6-5/8 1/4 .30 606 31/32 2 1-1/32 7-1/2 9/32 .38 606B 1 2 1-1/16 7-1/2 9/32 .38 607 1-1/16 2-5/16 1-1/8 8-1/2 5/16 .60 607A 1-1/8 2-5/16 1-3/16 8-1/2 5/16 .60 608 1-1/4 2-11/16 1-3/16 1-5/16	601	1/2	1-1/16	9/16	4	5/32	.07
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		9/16		5/8	4-1/2	3/16	
603 11/16 1-1/2 3/4 5-1/8 3/16 .15 604A 3/4 1-11/16 13/16 5-7/8 7/32 .19 604 25/32 1-11/16 27/32 5-7/8 7/32 .19 605A 13/16 1-7/8 7/8 6-5/8 1/4 .30 605 7/8 1-7/8 29/32 6-5/8 1/4 .30 606 31/32 2 1-1/32 7-1/2 9/32 .38 606B 1 2 1-1/16 7-1/2 9/32 .38 607 1-1/16 2-5/16 1-1/8 8-1/2 5/16 .60 607A 1-1/8 2-5/16 1-3/16 8-1/2 5/16 .60 608 1-1/4 2-11/16 1-5/16 10 3/8 1.1 609A 1-5/16 2-11/16 1-3/8 10 3/8 1.1 609A 1-7/16 3-1/4 1-5/8 11-5/8				21/32	4-1/2	3/16	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				11/16	5-1/8	3/16	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	603	11/16		3/4	5-1/8	3/16	.15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				13/16	5-7/8	7/32	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				<u> </u>	5-7/8	7/32	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			1-7/8	7/8	6-5/8	1/4	. 30
606B 1 2 1-1/16 7-1/2 9/32 .38 607 1-1/16 2-5/16 1-1/8 8-1/2 5/16 .60 607A 1-1/8 2-5/16 1-3/16 8-1/2 5/16 .60 608 1-1/4 2-11/16 1-5/16 10 3/8 1.1 608A 1-5/16 2-11/16 1-3/8 10 3/8 1.1 609 1-7/16 3-1/4 1-1/2 11-5/8 7/16 1.7 609A 1-1/2 3-1/4 1-5/8 11-5/8 7/16 1.7 610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4	605		1-7/8	29/32	6-5/8	1/4	. 30
607 1-1/16 2-5/16 1-1/8 8-1/2 5/16 .60 607A 1-1/8 2-5/16 1-3/16 8-1/2 5/16 .60 608 1-1/4 2-11/16 1-5/16 10 3/8 1.1 608A 1-5/16 2-11/16 1-3/8 10 3/8 1.1 609 1-7/16 3-1/4 1-1/2 11-5/8 7/16 1.7 609A 1-1/2 3-1/4 1-5/8 11-5/8 7/16 1.7 610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4		31/32	2	1-1/32	7-1/2	9/32	.38
607A 1-1/8 2-5/16 1-3/16 8-1/2 5/16 .60 (608 1-1/4 2-11/16 1-5/16 10 3/8 1.1 608A 1-5/16 2-11/16 1-3/8 10 3/8 1.1 609 1-7/16 3-1/4 1-1/2 11-5/8 7/16 1.7 609A 1-1/2 3-1/4 1-5/8 11-5/8 7/16 1.7 610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4		1	2		7-1/2	9/32	.38
608 1-1/4 2-11/16 1-5/16 10 3/8 1.1 608A 1-5/16 2-11/16 1-3/8 10 3/8 1.1 609 1-7/16 3-1/4 1-1/2 11-5/8 7/16 1.7 609A 1-1/2 3-1/4 1-5/8 11-5/8 7/16 1.7 610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4			2-5/16	1-1/8	8-1/2	5/16	
608A 1-5/16 2-11/16 1-3/8 10 3/8 1.1 609 1-7/16 3-1/4 1-1/2 11-5/8 7/16 1.7 609A 1-1/2 3-1/4 1-5/8 11-5/8 7/16 1.7 610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4		1-1/8		1-3/16	8-1/2	5/16	. 60
609 1-7/16 3-1/4 1-1/2 11-5/8 7/16 1.7 609A 1-1/2 3-1/4 1-5/8 11-5/8 7/16 1.7 610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4	608	,		1-5/16	10	3/8	1.1
609A 1-1/2 3-1/4 1-5/8 11-5/8 7/16 1.7 610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4	608A	1-5/16	2-11/16	1-3/8	10	3/8	1.1
610 1-5/8 3-9/16 1-7/8 13-1/4 1/2 2.4	_			1-1/2	11-5/8	7/16	1.7
				'		7/16	1.7
610A 1-11/16 3-9/16 2 13-1/4 1/2 2.4					13-1/4	1/2	2.4
	610A	1-11/16	3-9/16	2	13-1/4	1/2	2.4

DOUBLE HEAD SET SCREW WRENCHES - CARBON STEEL

Part	OPEN	INGS							Wt.	
No.	A	В	C	D	E	F	L	T	Oz.	
525	5/16	1/4	1-1/16	27/32	5/16	1/4	4-1/4	9/32	.13	
527	3/8	5/16	1-5/16	1	3/8	5/16	5	11/32	.20	
529	7/16	3/8	1-3/8	1-3/8	7/16	3/8	5-3/4	3/8	.35	
531	1/2	7/16	1-5/8	1-3/8	1/2	7/16	6-5/8	7/16	.53	
533	9/16	1/2	1-3/4	1-5/8	9/16	1/2	7-1/2	1/2	.70	
541	1	7/8	2-3/8	2-5/8	1	7/8	12-1/2	3/4	2.4	
543	1-1/8	1	2-5/8	2-7/8	1	1-1/8	14	13/16	3.6	
Fed	Fed. Spec.: GGG-W-636a, Type 7.									

DOUBLE HEAD THIN CHECK-NUT WRENCHES - CARBON STEEL

Part	OPEN		-	~			_	-	Wt.
No.	A	В	С	D	E	F	L	T	Lbs.
623D	7/16	1/2	1	1-3/16	7/16	9/16	4-1/2	5/32	.12
624B	1/2	9/16	1	1-3/16	9/16	9/16	4-1/2	5/32	.12
626S	9/16	5/8	1-1/4	1-7/16	9/16	5/8	5-1/2	3/16	.20
627	19/32	11/16	1-1/4	1-7/16	19/32	11/16	5-1/2	3/16	.20
630B	3/4	13/16	1-5/8	1-13/16	3/4	13/16	7	7/32	.32
630E	3/4	7/8	1-5/8	1-13/16	3/4	7/8	7	7/32	.32
632C	7/8	15/16	1-15/16	2-1/4	7/8	15/16	8-1/2	1/4	.60
634A	7/8	1	1-15/16	2-1/4	7/8	1	8-1/2	1/4	.60
635D	1	1-1/8	2-5/16	2-5/8	1-1/8	1-1/4	10-1/2	9/32	1.0
	1-1/16	1-1/4	2-5/16	2-5/8	1-3/16	1-3/8	10-1/2	9/32	1.0
637A	1-1/8	1-5/16	2-5/16	2-5/8	1-1/4	1-3/8	10-1/2	9/32	1.0
639	1-1/4	1-7/16	2-3/4	3-3/16	1-5/16	1-1/2	12-1/2	3/8	1.9
640A	1-5/16	1-1/2	2-3/4	3-3/16	1-3/8	1-9/16	12-1/2	3/8	1.9



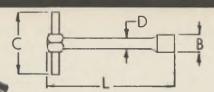






"T" HANDLE SOCKET WRENCHES



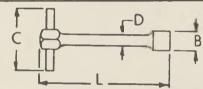




SIX-POINT OPENINGS

Part	"T" HANDL	E SOCKET	WRENCHES	- CARBON	STEEL	Wt.
No.	Oper	nings	С	D	L	Lbs.
961A	5/16	1/2	4-1/2	1/4	4-1/4	.12
962D	3/8	5/8	4-1/2	5/16	4-1/2	-22
963D	7/16	11/16	4-1/2	3/8	4-7/8	. 26
964A	1/2	3/4	5-1/2	7/16	5-1/4	. 34
965D	9/16	7/8	5-1/2	1/2	5-3/4	. 53
966D	5/8	1	6-1/8	1/2	6-1/8	. 70
967A	11/16	1-1/8	6-1/8	5/8	6-1/2	. 94
967D	3/4	1-1/8	6-1/8	5/8	6-1/2	. 94
968D	13/16	1-1/4	7	5/8	7	1.1
969A	7/8	1-3/8	7	5/8	7-3/8	1.3
970S	15/16	1-1/2	7-7/8	3/4	7-7/8	1.7
970D	1	1-1/2	7-7/8	3/4	7-7/8	1.7
971A	1-1/16	1-5/8	8-1/4	3/4	8-1/4	2.1
971D	1-1/8	1-5/8	8-1/4	3/4	8-1/4	2.1
973A	1-1/4	1-7/8	9	7/8	9-1/8	2.6
973B	1-5/16	1-7/8	9	7/8	9-1/8	2.6
975A	1-7/16	2-1/8	10	0 1	10	3.8
975D	1-1/2	2-1/8	10	11	10	3.8
976A	1-5/8	2-3/8	10-3/8	1-1/8	10-3/8	5.2
976B	1-11/16	2-3/8	10-3/8	1-1/8	10-3/8	5.2
977A	1-13/16	2-5/8	10-7/8	1-1/8	10-7/8	6.5
978A	2	2-7/8	11	1-1/4	11-3/8	7.0

Ref.: Fed. Spec. GGG-W-641b, Type 3, Class 2.





FOUR-POINT OPENINGS

				I OUK-I	OINT OPEN	IIIAG2
Part No.		HANDLE SOC	KET WRENC	CHES — CARB	ON STEEL	Wt. Lbs.
961H	3/16	1/2	4-1/4	1/4	4-1/4	.12
961J	1/4	1/2	4-1/4	1/4	4-1/4	.12
962H	5/16	5/8	4-1/2	5/16	4-1/2	.22
963H	3/8	11/16	4-7/8	3/8	4-7/8	.26
965H	7/16	7/8	5-3/4	1/2	5-3/4	. 53
966H	1/2	1	6-1/8	1/2	6-1/8	.70
967H	9/16	1-1/8	6-1/2	5/8	6-1/2	. 94
968H	5/8	1-1/4	7	5/8	7	1.1
968P	11/16	1-1/4	7	5/8	7	1.1
969H	3/4	1-3/8	7-3/8	5/8	7-3/8	1.3
971H	7/8	1-5/8	8-1/4	3/4	8-1/4	2.1
973H	1	1-7/8	9-1/8	7/8	9-1/8	2.6
974H	1-1/8	2	9-1/2	1	9-1/2	3.4
976H	1-1/4	2-3/8	10-3/8	1-1/8	10-3/8	5.2
977X	1-7/16	2-5/8	10-7/8	1-1/8	10-7/8	6.5
977P	1-1/2	2-5/8	10-7/8	1-1/8	10-7/8	6.5
Ref.: No	ne.					

FINISHED IN BLACK ENAMEL,

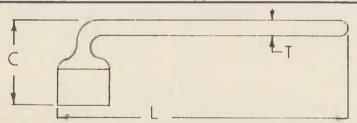
FINISHED IN BLACK ENAMEL,

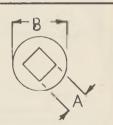
OFFSET HANDLE SOCKET WRENCHES



Part	OFFSET HAND	DLE SOCKET	WRENCHE	S — 6 PT. — C	ARBON ST	EEL Wt.
No.	Α	В	C	L	T	Lbs.
261A	5/16	1/2	1-5/32	3-3/8	9/32	.12
262D	3/8	5/8	1-1/2	3-7/8	3/8	.15
263D	7/16	23/32	1-7/16	4-3/4	3/8	.17
264A	1/2	3/4	1-5/8	5-1/8	3/8	. 20
265D	9/16	7/8	1-7/8	5-7/8	7/16	.40
266D	5/8	1	2-1/16	6-1/2	1/2	.48
267A	11/16	1-5/32	2-3/16	6-49/64	9/16	. 80
267D	3/4	1-5/32	2-3/16	6-49/64	9/16	. 80
268D	13/16	1-1/4	2-7/16	7-1/2	5/8	. 94
269A	7/8	1-3/8	2-7/8	8-3/8	5/8	1.2
270D	1	1-1/2	2-7/8	10-1/4	11/16	1.6
270S	15/16	1-1/2	2-7/8	10-1/4	11/16	1.6
271A	1-1/16	1-5/8	3-1/8	10	3/4	1.7
271D	1-1/8	1-5/8	3-1/8	10	3/4	1.7
273A	1-1/4	1-7/8	3-5/8	11-5/8	7/8	2.4
273B	1-5/16	1-7/8	3-5/8	11-5/8	7/8	2.4
275A	1-7/16	2-1/8	4-1/16	13-1/4	15/16	3.8
275D	1-1/2	2-1/8	4-1/16	13-1/4	15/16	3.8
276A	1-5/8	2-3/8	4-1/2	14-7/8	1	5.3
276B	1-11/16	2-3/8	4-1/2	14-7/8	1	5.3
277A	1-13/16	2-1/2	5	16-1/2	1-1/8	6.1
278A	2	2-7/8	5-1/2	18	1-1/8	8.5
Ref ·	Fed Spec GGC	2-W-641h Tv	ne 3 Class 1			

Ref.: Fed. Spec. GGG-W-641b, Type 3, Class 1.





Part No.	OFFSET HANDLI	E SOCKET B	WRENCHE C	S – 4 PT. – C. L	ARBON STE T	EL Wt. Lbs.
261J	1/4	1/2	1-5/32	3-3/8	9/32	. 088
262H	5/16	5/8	1-1/2	3-7/8	3/8	. 163
263H	3/8	23/32	1-7/16	4-3/4	3/8	. 200
265H	7/16	7/8	1-7/8	5-7/8	7/16	. 344
266H	1/2	1	2-1/16	6-1/2	1/2	. 513
267H	9/16	1-5/32	2-3/16	6-49/64	9/16	. 694
268H	5/8	1-1/4	2-7/16	7-1/2	5/8	. 950
268P	11/16	1-1/4	2-7/16	7-1/2	5/8	. 900
269H	3/4	1-3/8	2-7/8	8-3/8	5/8	1.100
271H	7/8	1-5/8	3-1/8	10	3/4	1.706
273H	1	1-7/8	3-5/8	11-5/8	7/8	2.600
274H	1-1/8	2	3-13/16	12-3/8	7/8	3.088
276H	1-1/4	2-3/8	4-1/2	14-7/8	1	4.900



PIN SPANNER

Single Pin design to be used in one of the notches of a round nut.

	For Circle Diameter		Length of Pin	Overall Length	Approx. Weight Each Lbs.
452	1	3/16	3/16	4	.05
453	1-1/4	13/64	3/16	4-1/2	.10
454	1-1/2	7/32	7/32	5	.13
455	1-3/4	15/64	7/32	5-1/2	.18
456	2	1/4	1/4	6	.23
457	2-1/4	17/64	1/4	6-1/2	.25
458	2-1/2	9/32	9/32	7	.31
459	2-3/4	19/64	9/32	7-1/2	.37
460	3	5/16	5/16	8	.43
461	3-1/4	21/64	5/16	8-1/2	.50
462	3-1/2	11/32	5/16	9	.57
462A	3-1/2	5/16	5/16	9	.57
463	3-3/4	23/64	3/8	9-1/2	.66
464	4	3/8	7/16	10	.76
466	5	,	7/16	12	1.0
468	6	1/2	1/2	14	1.5
		7/16 1/2			

Federal Specifications: GGG-W-665, Type II, Grade A

ADJUSTABLE FACE SPANNER

Adjustable Face Spanner is used like the Face Spanner shown above, but, because it is adjustable, a single Spanner may be used with a number of round nuts of various sizes.

Stock Number	Capacity for Circles Diameter	Thick- ness of Handle	Thick- ness of Hook	Depth of Hook	Overall Length	Approx. Weight Each Lbs.
471	3/4 to 2	1/4	11/32	1/8	6-3/8	.25
472	1-1/4 to 3	9/32	13/32	5/32	8-1/8	.44
474	2 to 4-3/4	5/16	15/32	3/16	11-3/8	.95
474A	4-1/2 to 6-1/4	5/16	15/32	1/4	12-1/8	1.1

Federal Specifications: GGG-W-665, Type III, Class 1

ADJUSTABLE HOOK SPANNER

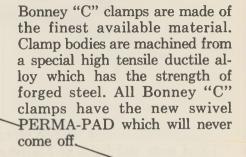
Adjustable Hook Spanner is strong — easily adjustable to a wide range of sizes. Ideal for use with spindle bearings or for adjusting the collars and slotted rings used on many automatic machines.

Stock Number		Diameter of Pin	Length of Pin	Overall Length	Approx. Weight Each Lbs.
482	2	3/16	$1/4 \\ 1/4 \\ 1/2$	6-3/8	.25
483	3	1/4		8-1/4	.50
484	4	5/16		10-3/8	1.0

Federal Specifications: GGG-W-665, Type I, Class 1

SECTION 13-PAGE 8





These clamps combine a deep throat of ample size and dependable strength at minimum weight. Screws are drop forged in one piece and threaded for strength and rapid adjustment.

Fed. Spec. GGG-C-00406

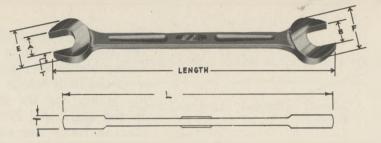
HEAVY DUTY CLAMPS

Part No.	Maximum Opening	Minimum Opening	Recessed Opening	Width	Length	Weight Lbs.
CC104	4	0	2-1/4	4-11/16	10-7/8	3.000
CC106	6	2	2-3/8	5	12-13/16	5.562
CC108	8	4	2-5/8	5-1/4	15	6,500
CC110	10	6	2-7/8	5-19/32	17	7.750

REGULAR CLAMPS

CC402	2	0	1-3/4	3-7/16	6-5/16	1.500
CC403	3	0	2	3-5/8	8-5/16	2.500
CC404	4	0	2-3/8	4-1/2	9-11/16	3.000
CC406	6	0	3	5-3/4	12	3.562
CC408	8	0	3-3/8	5-7/8	14-1/4	5.500
CC410	10	2	3-3/4	7	16-7/16	7.250
CC412	12	2				

METRIC TOOLS AND SETS



Bonney open end Metric wrenches designed to cover the popular size nuts and bolts of Metric standards. These wrenches are drop forged of alloy steel, nickel chrome plated, and finished to close tolerances. These streamlined wrenches are especially thin but still retain maximum strength.

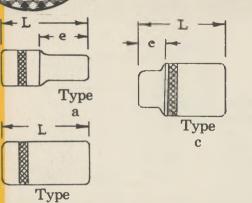
	Ope	ench ning			OPEN EN	ID WRENC	CHES		XXI.
Part		M	0	D	10	F	L	Т	Wt.
No.	Α	В	С	D	E				Lbs.
ME68	6	8	1/4	5/16	9/16	11/16	4-1/4	5/32	. 025
ME79	7	9	5/16	13/32	11/16	13/16	4-3/4	3/16	. 060
ME1012	10	12	13/32	15/32	13/16	15/16	5-1/4	7/32	.075
ME1113	11	13	29/64	33/64	15/16	1-1/16	5-3/4	15/64	. 113
ME1416	14	16	17/32	5/8	1-1/16	1-3/16	6-1/4	1/4	. 144
ME1517	15	17	39/64	11/16	1-3/16	1-5/16	7	17/64	. 197
ME1819		19	45/64	47/64	1-5/16	1-7/16	7-3/4	9/32	. 263
ME2022		22	13/16	7/8	1-9/16	1-11/16	9-1/4	11/32	. 406
ME2123	21	23	27/32	15/16	1-11/16	1-13/16	10	23/64	. 538
ME2425	24	25	31/32	1	1-13/16	1-15/16	10-3/4	3/8	. 625

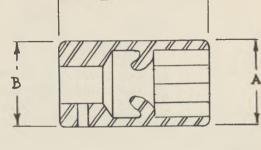


These combination wrenches in Metric standards are finished the same as the above open end wrenches, machined to close tolerances for best fit for specific jobs.

Part	Opening MM		сом	BINATION	WRENC	HES		Wt.
No.	A	C	E	F	L	Ta	Tb	Lbs.
MEB7	7	9/32	19/32	7/16	3	5/32	3/16	. 025
MEB8	8	21/64	25/32	1/2	3-3/4	11/64	7/32	. 044
MEB9	9	21/64	25/32	1/2	3-3/4	11/64	7/32	.044
MEB10	10	25/64	27/32	9/16	4-1/2	3/16	1/4	.063
MEB11	11	29/64	29/32	21/32	5-3/16	7/32	5/16	. 081
MEB12	12	33/64	1-1/16	47/64	5-15/16	1/4	5/16	.128
MEB13	13	33/64	1-1/16	47/64	5-15/16	1/4	5/16	.128
MEB14	14	37/64	1-7/32	53/64	6-11/16	9/32	11/32	. 181
MEB15	15	37/64	1-7/32	53/64	6-11/16	9/32	11/32	. 181
MEB16	16	41/64	1-11/32	29/32	7-7/16	5/16	3/8	. 264
MEB17	17	45/64	1-15/32	1	8-5/16	11/32	13/32	. 338
MEB18	18	45/64	1-15/32	1	8-5/16	11/32	13/32	. 338
MEB19	19	25/32	1-9/16	1-5/64	9-3/16	3/8	7/16	. 406

METRIC TOOLS AND SETS

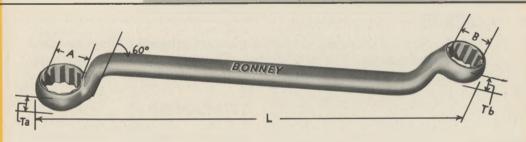




%-INCH DRIVE SOCKETS

These Bonney Metric standard sockets are made of alloy steel especially designed for perfect fit for most Metric nuts and bolts. See Page 3 of this section for information on sets containing these sockets.

Part	Opening		Diar	neter	Nose	Length	Weight
No.	MM.	Type	(A)	(B)	(e)	(L)	Lbs.
MT-7	7	a	13/32	21/32	1/2	1	.030
MT-8	8	a	29/64	21/32	1/2	1	.033
MT-9	9	a	1/2	21/32	1/2	1	.035
MT-10	10	a	9/16	21/32	1/2	1	.038
MT-11	11	a	39/64	21/32	1/2	1	.040
MT-12	12	b	21/32	21/32		1	.041
MT-13	13	b	23/32	23/32		1	.042
MT-14	14	b	49/64	49/64		1	.044
MT-15	15	b	13/16	13/16		1	.046
MT-16	16	b	55/64	55/64		1	.050
MT-17	17	b	57/64	57/64		1	.055
MT-18	18	b	59/64	59/64		9	.068
MT-19	19	С	1	11/16	11/32	1-7/32	.075



-			ench ning	ВС	X END W	VRENCHES	(SHORT)	
	Part No.		M (B)	Offset	Length (L)	Head Ti (Ta)	hickness (Tb)	Weight Lbs.
-	MBS911	9	11	1/2	4-3/4	1/4	9/32	.069
-	MBS1012	10	12	1/2	4-3/4	1/4	9/32	.069
	MBS1315	13	14	1/2	5-3/8	21/64	23/64	.125
	MBS1517	15	17	1/2	5-3/4	23/64	25/64	.150

The above listed box wrenches meet the rigid specifications of all Bonney wrenches, made of alloy steel with nickel chrome plate.













M200R

Set consists of 5 popular size combination wrenches and comes in plastic roll LR70. 5 PIECES, SHIP-PING WEIGHT.928 LBS.

No.	Opening MM
MEB10	10
MEB11	11
MEB12	12
MEB13	13
MEB14	14
LR70	Plastic Roll

M205R

Set consists of 7 popular size combination wrenches in Metric standard. Comes in plastic roll LR80. 7 PIECES, SHIPPING WEIGHT 2.500 LBS.

	Opening
No.	MM
MEB8	8
MEB9	9
MEB10	10
MEB11	11
MEB12	12
MEB13	13
MEB14	14
LR80	Plastic Roll



M215B

Popular size sockets with new design Bonney ratchet. This set is sold in metal box MB36. 8 PIECES, SHIP-PING WEIGHT 2.719 LBS.

No.	Opening MM	Length
MT8	8	29/32
MT9	9	29/32
MT10	10	29/32
MT11	11	29/32
MT12	12	29/32
MT13	13	29/32
MT14	14	29/32
T701	6-1/2"	Ratchet
MB36	M	etal Box

M215B

Width 13" Depth 3" Height 1-7/8"

M230B

Popular size sockets and wrenches, plus an extension hinge handle and the new design Bonney ratchet. The set is sold in metal box MB44. 17 PIECES, SHIPPING WEIGHT 6.875 LBS.



M230B

Width 18-1/4" Depth 4-5/8" Height 1-5/8"

METRIC SOCKETS

Tool No.	Opening MM	Length
MT8	8	29/32
MT9	9	29/32
MT10	10	29/32
MT11	11	29/32
MT12	12	29/32
MT13	13	29/32
MT14	14	29/32

ATTACHMENTS

Tool No.	Description
T606	6" Extension
T701	6-1/2" Reversible Ratchet
T720	7-5/8" Hinge Handle

WRENCHES

Tool No.	Opening MM	
MEB8	8	3-3/4
MEB9	9	3-3/4
MEB10	10	4-1/2
MEB11	11	5-3/16
MEB12	12	5-15/16
MEB13	13	5-15/16
MEB14	14	6-11/16
MB44		Metal Box

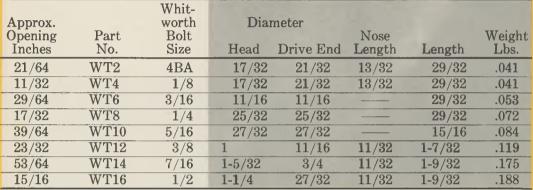


3/8 INCH SQUARE DRIVE SOCKETS









Bonney offers the above range of sockets to meet the ever increasing demand for Whitworth standards. See Page 6 of this section for various sets containing many of these sockets.

OPEN END WRENCHES



Approx. Opening Inches	Part No.	Whit	t Size worth Large	Head D Small	iameter Large	Length		Weight Lbs.
29/64x 11/32	WE46	1/8	3/16	13/16	15/16	5-1/4	7/32	.075
39/64x 17/32	WE810	1/4	5/16	1-1/16	1-3/16	6-1/4	1/4	.138
53/64x 23/32	WE1214	3/8	7/16	1-7/16	1-9/16	8-1/2	5/16	.325
1-1/64x 15/16	WE1618	1/2	9/16	1-13/16	2	11-1/8	13/32	.725
1-5/16x1-7/64	WE2024	5/8	3/4	2-1/4	2-5/8	13-5/8	1/2	1.450

TAPPET WRENCHES

Approx. Opening Inches	Part No.	White Oper Small		Head I Small	Diameter Large	Length L	Weight Lbs.
17/32x29/64	WET68	3/16	1/4	1/2	19/32	9-1/2	.191
23/32x39/64	WET1012	5/16	3/8	11/16	3/4	9-1/2	.219

These 2 Tappet wrenches are of the popular size made of drop forged alloy steel with nickel chrome plate. As in all Bonney wrenches, close tolerances are maintained for perfect fit.

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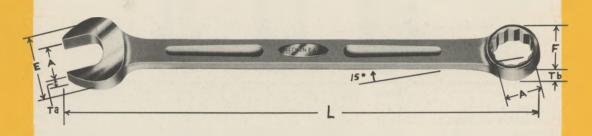






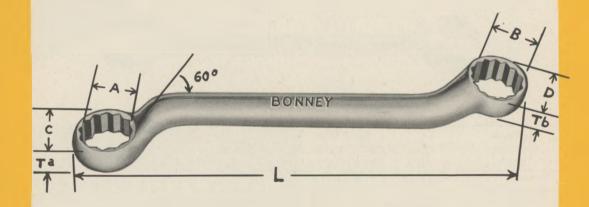


COMBINATION WRENCHES-12 POINT



Approx. Opening Inches	Part No.	Whitworth Opening	Head D O.E.	Diameter Box	Length L	Weight Lbs.
11/32	WEB4	1/8	27/32	9/16	4-1/2	.063
29/64	WEB6	3/16	29/32	21/32	5-3/16	.081
17/32	WEB8	1/4	1-1/16	47/64	5-15/16	.128
39/64	WEB10	5/16	1-7/32	53/64	6-11/16	.181
23/32	WEB12	3/8	1-15/32	1	8-5/16	.338
53/64	WEB14	7/16	1-11/16	1-11/64	10-1/4	.575
15/16	WEB16	1/2	1-13/16	1-1/4	11-1/4	.675

BOX WRENCHES



Approx. Opening Inches	Part No.		worth ning Large	Head I Small	Diameter Large	Length	Weight Lbs.
11/32x29/64	WBS46	1/8	3/16	9/16	21/32	4-3/4	.069
17/32x39/64	WBS810	1/4	5/16	3/4	13/16	5-3/4	.125

The above listed combination and box wrenches are of the usual Bonney quality made to meet strict specifications and made of the finest material available, drop forged alloy steel with nickel chrome plating. With these wrenches many adjustments can be made on the foreign cars which are growing in popularity. The "modern thinking" mechanic will want to stock up on a complete set of these Whitworth tools.





W100R

Set consists of 5 popular size combination wrenches and comes in plastic roll LR70. 5 PIECES, SHIPPING WEIGHT.884 LBS.

Tool No.	Whitworth Standard Nuts; Size Bolts
WEB4	1/8
WEB6	3/16
WEB8	1/4
WEB10	5/16
WEB12	3/8
LR70	Plastic Roll



W105R

This set consists of 7 popular size combination wrenches in Whitworth standard. Comes in plastic roll LR80. 7 PIECES, SHIPPING WT. 2.500 LBS.

	Whitworth
Tool	Standard Nuts;
No.	Bolt Sizes
WEB4	1/8
WEB6	3/16
WEB8	1/4
WEB10	5/16
WEB12	3/8
WEB14	7/16
WEB16	1/2
LR80	Plastic Roll



W115B

This set consists of 8 pieces of the popular size sockets with the new design Bonney ratchet. This set is sold in metal box MB36. 8 PIECES, SHIPPING WEIGHT 2.719 LBS.

Whi	tworth Standard	Nuts:
No.	Size Bolts	Length
WT4	1/8	29/32
WT6	3/16	29/32
WT8	1/4	29/32
WT10	5/16	15/16
WT12	3/8	1-3/16
WT14	7/16	1-9/32
WT16	1/2	1-9/32
T701	6-1/2" Ratchet	
MB36	Metal Box	



Width 13" Depth 3" Height 1-7/8"

W120B – Popular size sockets and the Bonney hinge handle T720. This set is sold in metal box MB36. 8 PIECES, SHIPPING WEIGHT 2.625 LBS.

W130B – Popular size sockets and wrenches, plus an extension hinge handle and the new design Bonney ratchet. The set is sold in metal box MB44. 17 PIECES, SHIPPING WEIGHT 6.875 LBS.

No.	Bolt Size	Length
WT4	1/8	29/32
WT6	3/16	29/32
WT8	1/4	29/32
WT10	5/16	15/16
WT12	3/8	1-3/16
WT14	7/16	1-9/32
WT16	1/2	1-9/32
T720	7-5/8"	Hge. Hdl
MB36	Meta	al Box

SOCKET:

3001		
	Bolt Size	Length
WT4	1/8	29/32
WT6	3/16	29/32
WT8	1/4	29/32
WT10	5/16	15/16
WT12	3/8	1-3/16
WT14	7/16	1-9/32
WT16	1/2	1-9/32

ATTACHMENTS

AT4 6" Wobble Drive
T701
6-1/2" Reversible Ratchet
T720
7-5/8" Hinge Handle

WRENCHES

Tool No.	Bolt Size	Length
WEB4	1/8.	4-1/2
WEB6	3/16	5-3/16
WEB8	1/4	5-15/16
WEB10	5/16	6-11/16
WEB12	3/8	8-5/16
WEB14	7/16	10-1/4
WEB16	1/2	11-1/4



Width 18-1/4" Depth 4-5/8" Height 1-5/8"

Width 13" Depth 3"

Height 1-7/8"

TOOL SETS 1/4 INCH SQUARE DRIVE





VM5B—The tools contained in this set are especially handy for working with electrical, radio, and ignition equipment. Sold in metal box MB12. 23 PIECES, SHIP-PING WEIGHT 2.095 LBS.

MINIATURE OPEN-END WRENCHES

Part No.	Description	
H10 H12 H14 H16 H18 001-2	3/16" & 7/32" O E Min. Wrench 1/4" & 9/32" O E Min. Wrench 5/16" & 11/32" O E Min. Wrench 3/8" & 7/16" O E Min. Wrench 13/32" & 15/32" O E Min. Wrench Screw Driver	

VM5B

Width 6-1/2"
Depth 4-13/16"
Height 1-3/16"

1/4" SQUARE DRIVE SOCKETS AND ATTACHMENTS

ĺ	Part No. Description	Part No.	Description
•	V6 3/16" 12 Point Socket V7 7/32" 12 Point Socket V8 1/4" 12 Point Socket V9 9/32" 12 Point Socket V10 5/16" 12 Point Socket V11 11/32" 12 Point Socket V12 3/8" 12 Point Socket V14 7/16" 12 Point Socket	V780 V720	1/4" 8 Point Socket 5/16" 8 Point Socket 3/8" 8 Point Socket Sliding "T" Handle, 4-1/2" Long Extension, 6" Long Extension, 2" Long Screwdriver Handle, 6" Long Hinge Handle, 5-3/4" Long Cross Handle, 3-1/2" Long



V50B — The tools in this set are the popular 1/4" drive sockets and attachments for small repair jobs. Sold in metal box MB12. 14 PIECES, SHIPPING WEIGHT 1.438 LBS.

Part No.	Description	Part No. Description
V6 V7 V8 V9 V10 V11 V12	3/16" 12 Point Socket 7/32" 12 Point Socket 1/4" 12 Point Socket 9/32" 12 Point Socket 5/16" 12 Point Socket 11/32" 12 Point Socket 3/8" 12 Point Socket	V14 7/16" 12 Point Socket VS8 1/4" 8 Point Socket VS10 5/16" 8 Point Socket VS12 3/8" 8 Point Socket V606 Extension, 6" Long V602 Extension, 2" Long V730 Sliding "T" Handle, 4-1/2" Long

V50B
Width 6-1/2"
Depth 4-13/16"
Height 1-3/16"



V51B — This set consists of tools which are especially useful in adjusting distributors, carburetor, and generators, packed in metal box MB12. 17 PIECES, SHIPPING WEIGHT 1.813 LBS.

Part No.	Description	Part No. Description
V6 V7 V8 V9 V10 V11 V12 V14 VS8	3/16" 12 Point Socket 7/32" 12 Point Socket 1/4" 12 Point Socket 9/32" 12 Point Socket 5/16" 12 Point Socket 11/32" 12 Point Socket 3/8" 12 Point Socket 7/16" 12 Point Socket 1/4" 8 Point Socket	VS10 5/16" 8 Point Socket VS12 3/8" 8 Point Socket V730 Sliding "T" Handle, 4-1/2" Long V606 Extension, 6" Long V602 Extension, 2" Long V780 Screwdriver Handle, 6" Long V720 Hinge Handle, 5-3/4" Long V775 Cross Handle, 3-1/2" Long

Width 6-1/2"
Depth 4-13/16"
Height 1-3/16"

SEE SECTION 10, PAGE 1 FOR BU40B SET SECTION 16—PAGE 1



TOOL SETS 1/4 INCH SQUARE DRIVE

V53B — The tools contained in this set are also handy for working with electrical and ignition equipment. Packed in metal Box MB12. 12 PIECES, SHIPPING WEIGHT 1.345 LBS.

Part No.	Description	Part No.	Description
V6 V7 V8 V9 V10 V11	3/16" 12 Point Socket 7/32" 12 Point Socket 1/4" 12 Point Socket 9/32" 12 Point Socket 5/16" 12 Point Socket 11/32" 12 Point Socket	V12 V14 VS8 VS10 VS12 V701	3/8" 12 Point Socket 7/16" 12 Point Socket 1/4" 8 Point Socket 5/16" 8 Point Socket 3/8" 8 Point Socket Reversible Ratchet, 4-1/2" Long

V54B — The electrical mechanic will use this set to advantage. The deep sockets will be of great value in reaching those hard to get nuts and bolts. Packed in metal box MB12. 12 PIECES, SHIPPING WEIGHT 1.657 LBS.

Part No. Description	Part N	o. Description
VL6 3/16" 12 Point Deep VL7 7/32" 12 Point Deep VL8 1/4" 12 Point Deep VL9 9/32" 12 Point Deep VL10 5/16" 12 Point Deep VL11 11/32" 12 Point Deep	Socket VL14 Socket VL16 Socket V606 Socket V602	3/8" 12 Point Deep Socket 7/16" 12 Point Deep Socket 1/2" 12 Point Deep Socket Extension, 6" Long Extension, 2" Long Spinner Hinge Handle



V53B Width 6-1/2" Depth 4-13/16"

Height 1-3/16"



BONNEY

TOOL SETS 3/8 INCH SQUARE DRIVE

TB3R — The tools in this set are especially handy for body and door frame work where extra force is required in breaking loose or setting screws, packed in plastic roll LR5. 9 PIECES, SHIPPING WEIGHT .375 LBS.

	TIECES, SHITTING WEIGHT .575 EBS.		
Part No.		Description	
	TP1 Bit TP2 Bit	Bit for TP1—Fits #4 and Smaller Bit for TP2—Fits #5 to #9	
	TP3 Bit TP4 Bit	Bit for TP3—Fits #10 to #16 Bit for TP4—Fits #18 and Larger	
	TCL3 Bit TCL5 Bit	Bit for TCL3—Fits Sizes #4, #8, #10	
	TCL7 Bit	Bit for TCL5—Fits Sizes #12, #14, #1/4 Bit for TCL7—Fits Sizes #5/16, #3/8	
	TPC AW2-1/2	Screwdriver Bit Socket	

TB5B — The tools in this set are also used in body and door frame work as in set TB3R. Packed in metal box MB8. 8 PIECES, SHIPPING WEIGHT .938 LBS.

Tibobs, Silli III Weldill .000 lbs.				
Part N	o. Description			
TP1	No. 1 Phillips Socket & Bit—Fits Phillips Screws #4 and Smaller			
TP2	No. 2 Phillips Socket & Bit—Fits Phillips Screws #5 to #9			
TP3	No. 3 Phillips Socket & Bit—Fits Phillips Screws #10 to 16			
TP4	No. 4 Phillips Socket & Bit—Fits Phillips Screws #18 and Larger			
TCL3	Clutch Head Socket & Bit—Fits Clutch Head Screw Sizes #4, #8, #10			
TCL5	Clutch Head Socket & Bit—Fits Clutch Head Screw Sizes #12, #14, #1/4			
TCL7	Clutch Head Socket & Bit—Fits Clutch Head Screw Sizes #5/15, #3/8			
AW2-1/				

V54B

Width 6-1/2" Depth 4-13/16" Height 1-3/16"



TB3R

16



TOOL SETS 3/8 INCH SQUARE DRIVE



TD1B — This set consists of the popular 3/8" square drive sockets and the new 3/8" square drive Bonney ratchet. Packed in metal box MB36. 7 PIECES, SHIPPING WEIGHT 2.157 LBS.

Part	December	Part No.	Description
No.	Description	T16	1/2" 12 Point Socket
T10	5/16" 12 Point Socket	T18	9/16" 12 Point Socket
T12	3/8" 12 Point Socket	T20	5/8" 12 Point Socket
T14	7/16" 12 Point Socker	T701	Reversible Ratchet, 7"



Width 13" Depth 3"



TD2B - The tools in this box are the same as in TD1B with the exception of the sockets being 6 point instead of 12 point. Packed in metal box MB36. 7 PIECES, SHIPPING WEIGHT 2.125 LBS.

Part	D	Part No.	Description
No.	Description 5/16" 6 Point Socket	TH16 TH18	1/2" 6 Point Socket 9/16" 6 Point Socket
TH12 TH14	3/8" 6 Point Socket 7/16" 6 Point Socket	TH20 T701	5/8" 6 Point Socket Reversible Ratchet, 7"

Part No.

TD2B

Width 13" Depth 3" Height 1-7/8"



TD4B — This set consists of the small series socket and attachments in a 3/8" square drive including flexible sockets and the new design Bonney ratchet. Packed in metal box MB60. 39 PIECES, SHIPPING WEIGHT 20.063 LBS.

Description

TD4B

Width 21-7/8" Depth 9-1/4" Height 5"

		1 410 110.	Description
10		TS16	1/2" 8 Point Socket
	5	TS18	9/16" 8 Point Socket
Part No.	Description	TS20	5/8" 8 Point Socket
T760	Universal Joint	TU14	7/16" Flex. 12 Point Socket
T606	Extension, 6"	TU16	1/2" Flex. 12 Point Socket
T612	Extension, 12"	TU18	9/16" Flex. 12 Point Socket
T617	Extension, 17"	TU20	5/8" Flex. 12 Point Socket
T742	Speeder, 17-1/2"	LT14	7/16" Extra Deep Socket
T10	5/16" 12 Point Socket	LT16	1/2" Extra Deep Socket
T12	3/8" 12 Point Socket	LT18	9/16" Extra Deep Socket
T14	7/16" 12 Point Socket	LT20	5/8" Extra Deep Socket
T16	1/2" 12 Point Socket	LT22	11/16" Extra Deep Socket
T18	9/16" 12 Point Socket	LT24	3/4" Extra Deep Socket
T19	19/32" 12 Point Socket	LT26	13/16" Extra Deep Socket
T20	5/8" 12 Point Socket	LT28	7/8" Extra Deep Socket
T22	11/16" 12 Point Socket	T27	Drag Link Socket
T24	3/4" 12 Point Socket	T720	Hinge Handle, 8-1/2"
T25	25/32" 12 Point Socket	T603	Extension, 3"
T26	13/16" 12 Point Socket	T775	Cross Handle, 6"
T128	7/8" 12 Point Socket	T701	Reversible Ratchet, 7"
TS14	7/16" 8 Point Socket	T730	Sliding "T" Handle, 8"



TOOL SETS 3/8 INCH SQUARE DRIVE

TD11B — Most of the popular size 3/8" square drive 12 point sockets are featured in this set in addition to the necessary adjustments and ratchet. Packed in metal box MB36. 12 PIECES, SHIPPING WEIGHT 3.907 LBS.



Part No.	Description	Part No.	Description
T10	5/16" 12 Point Socket	T20	5/8" 12 Point Socket
T12	3/8" 12 Point Socket	T760	Universal Joint
T14	7/16" 12 Point Socket	T606	Extension, 6"
T16	1/2" 12 Point Socket	T612	Extension, 12"
T18	9/16" 12 Point Socket	T701	Reversible Ratchet, 7"
T19	19/32" 12 Point Socket	T730	Sliding "T" Handle, 8"

TD11B

Width 13" Depth 3" Height 1-7/8"

TD14B—A very popular set in 3/8" square drive consisting of most of the popular 12 point sockets with the necessary attachments and handles. Packed in metal box MB44. 19 PIECES, SHIPPING WEIGHT, 8.000 LBS.

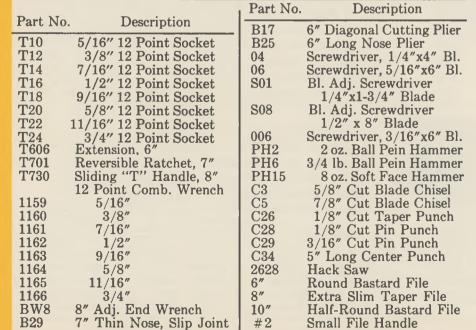
Part No.	Description	D	
T10	5/16" 12 Point Socket	Part No.	Description
T12	3/8" 12 Point Socket	T606	Extension, 6"
T14	7/16" 12 Point Socket	T612	Extension, 12"
T16	1/2" 12 Point Socket	T617	Extension, 17"
T18	9/16" 12 Point Socket	T742	Speeder, 17-1/2"
T19	19/32" 12 Point Socket	T27	Drag Link Socket
T20	5/8" 12 Point Socket	T720	Hinge Handle, 8-1/2"
T22	11/16" 12 Point Socket	T775	Cross Handle, 6"
T24	3/4" 12 Point Socket	T701	Reversible Ratchet, 7"
T760	Universal Joint	T730	Sliding "T" Handle, 8"

TD14B

Width 18-1/4" Depth 4-5/8" Height 1-5/8"

TM10B — This set contains the necessary sockets and attachments in 3/8" square drive plus such popular tools as open end wrenches, pliers, screwdrivers, hammers, punches, and chisels. Packed in metal box MB60. 44 PIECES, SHIPPING WEIGHT, 25.188 LBS.

Side Cutting Plier





TM10B

Width 21-7/8" Depth 9-1/4" Height 5"

16

Medium File Handles

#3(2)

TOOL SETS 3/8 INCH SQUARE DRIVE





TWB—The tools in this set are made for all popular size set screws or cap screws. Packed in metal box MB8. 8 PIECES, SHIPPING WEIGHT .845 LBS.

Part No.	Description	Part No.	Description
TWB TW4 TW5 TW6	Set, 3/8" Drive Socket Head Wrench 1/8" Hex Bit 5/32" Hex Bit 3/16" Hex Bit	TW7 TW8 TW10 TW12 AW2-1/2 H	7/32" Hex Bit 1/4" Hex Bit 5/16" Hex Bit 3/8" Hex Bit exagonal Key

TWB

Width 4-7/8" Depth 2-3/8" Height 1"



TOOL SETS 1/2 INCH SQUARE DRIVE

AA8B — This is a practical, basic socket set for every mechanic. Consisting of a range of 12 point sockets from 7/16" opening through 1" opening. Packed in metal box MB40. 14 PIECES, SHIPPING WEIGHT 6.500 LBS.

~			
	Part No.	Description	Part No. Description
	A14	7/16" 12 Point Socket	A25 25/32" 12 Point Socket
	A16	1/2" 12 Point Socket	A26 13/16" 12 Point Socket
	A18	9/16" 12 Point Socket	A28 7/8" 12 Point Socket
	A19	19/32" 12 Point Socket	A30 15/16" 12 Point Socket
	A20	5/8" 12 Point Socket	A32 1" 12 Point Socket
	A22	11/16" 12 Point Socket	A722 Hinge Handle, 15" Long
	A24	3/4" 12 Point Socket	A775 Cross Handle, 8" Long

AA8B

Width 18-3/8" Depth 2-3/4" Height 1-7/8"



AA16B — This set consists of a wide range of 12 point sockets in the 1/2" square drive plus a reversible ratchet. Packed in metal box MB40. 13 PIECES, SHIPPING WEIGHT 5.938 LBS.

Part No.	Description	Part No	. Description
A14 A16 A18 A19 A20 A22	7/16" 12 Point Socket 1/2" 12 Point Socket 9/16" 12 Point Socket 19/32" 12 Point Socket 5/8" 12 Point Socket 11/16" 12 Point Socket		3/4" 12 Point Socket 25/32" 12 Point Socket 13/16" 12 Point Socket 7/8" 12 Point Socket 15/16" 12 Point Socket 1" 12 Point Socket Reversible Ratchet, 10"

AA16B

Width 18-3/4" Depth 2-3/4" Height 1-7/8"



AA18B — This set consists of 12 point sockets from 7/16" opening through 1" opening plus reversible ratchet 10" long. Packed in metal box MB40. 11 PIECES, SHIPPING WEIGHT 23.313 LBS.

AA18B

Width 18-3/8" Depth 2-3/4" Height 1-7/8"

T)	D ' ' '	Part No	. Description
Part No.	Description	AH24	3/4" 6 Point Socket
AH14	7/16" 6 Point Socket	AH26	13/16" 6 Point Socket
AH16	1/2" 6 Point Socket	AH28	7/8" 6 Point Socket
AH18	9/16" 6 Point Socket	AH30	15/16" 6 Point Socket
AH20	5/8" 6 Point Socket	AH32	1" 6 Point Socket
AH22	11/16" 6 Point Socket	A701	Reversible Ratchet, 10"



TOOL SETS 1/2 INCH SQUARE DRIVE

AA20B — This set consists of a complete range of 1/2" square drive 12 point sockets and hinge handles. Packed in metal box MB40. 17 PIECES, SHIPPING WEIGHT 7.750 LBS.

Part No. Description	D 111 D 111 T
A14 7/16" 12 Point Socket A16 1/2" 12 Point Socket A18 9/16" 12 Point Socket A19 19/32" 12 Point Socket A20 5/8" 12 Point Socket	Part No. Description A28 7/8" 12 Point Socket A30 15/16" 12 Point Socket A32 1" 12 Point Socket A34 1-1/16" 12 Point Socket
A22 11/16" 12 Point Socket A24 3/4" 12 Point Socket A25 25/32" 12 Point Socket A26 13/32" 12 Point Socket	A36 1-1/8" 12 Point Socket A40 1-1/4" 12 Point Socket A722 Hinge Handle, 15" A775 Cross Handle, 8"

AA20B

Width 18-3/8"
Depth 2-3/4"
Height 1-7/8"

AA24B — Here is a popular set consisting of the necessary 12 point sockets in addition to Universal joint, extensions, speeder handle, and reversible ratchet. Packed in metal box MB56. 16 PIECES, SHIPPING WEIGHT 12.438 LBS.

Part No.	Description	Part No.	Description
A20	7/16" 12 Point Socket 1/2" 12 Point Socket 9/16" 12 Point Socket 19/32" 12 Point Socket 5/8" 12 Point Socket 11/16" 12 Point Socket 3/4" 12 Point Socket	A26 A28 A740 A730 A605 A610 A760	13/16" 12 Point Socket 7/8" 12 Point Socket Speeder, 14" Sliding "T" Handle, 11' Extension, 5" Extension, 10"
	25/32" 12 Point Socket	A701	Universal Joint Reversible Ratchet

AA24B

Width 20-7/16" Depth 8-3/8" Height 2-1/4"

AA28B — This set is much the same as AA24B with the addition of an extra speeder handle. Packed in metal box MB56. 21 PIECES, SHIPPING WEIGHT 16.188 LBS.

Part No.	. Description		
A14	7/16" 12 Point Socket	Part No.	Description
A16	1/2" 12 Point Socket	A740	Brace, 14" Long
A18	9/16" 12 Point Socket	A744	Speeder, 19-3/4" Long
A19	19/32" 12 Point Socket	A730	Sliding "T" Handle, 11"
A20	5/8" 12 Point Socket		Long
A22	11/16" 12 Point Socket	A605	Extension, 5" Long
A24	3/4" 12 Point Socket	A610	Extension, 10" Long
A25	25/32" 12 Point Socket	A775	Cross Handle, 8" Long
A26	13/16" 12 Point Socket	A760	Universal Joint
A28	7/8" 12 Point Socket	A722	Hinge Handle, 15" Long
A30	15/16" 12 Point Socket	A701	Reversible Ratchet, 10"
A32	1" 12 Point Socket		Long

AA28B

Width 20-7/16" Depth 8-3/8" Height 2-1/4"

LD2B — This set consists of 6 sockets designed to remove and replace spark plugs in most model cars and trucks. Packed in metal box MB20. 7 PIECES, SHIPPING WEIGHT 3.782 LBS.

Part No. Description	Deviation Deviation
LD20 5/8" Ex. Deep Socket LD22 11/16" Ex. Deep Socket LD26T 13/16" Ex. Deep Socket LD28T 7/8" Ex. Deep Socket	Part No. Description LD30 15/16" Ex. Deep Socket LD32 1" Ex. Deep Socket A775 Cross Handle, 8"

16

LD2B

Width 8-1/2" Depth 4" Height 1-1/2"

TOOL SETS 1/2 INCH SQUARE DRIVE



AM16B — Here is a set especially designed for the mechanic who is just starting out. Consists of the popular size 12 point sockets with the necessary handles and attachments in addition to screwdrivers, hack saw, chisels, combination wrenches, hammer, and pump plier. Packed in metal box MB60. 13 PIECES, SHIPPING WEIGHT 5.938 LBS.

AM16B

Width 21-7/8" Depth 9-1/4" Height 5"

Part No.	Description	Part No.	Description
A14	7/16" 12 Point Socket	1163	9/16" Comb. Wrench
A16	1/2" 12 Point Socket	1164	5/8" Comb. Wrench
A18	9/16" 12 Point Socket	B45	Rib Joint Plier (Pump)
A19	19/32" 12 Point Socket	C2	Blade Chisel, 7/16" Cut
A20	5/8" 12 Point Socket	C4	Blade Chisel, 3/4" Cut
A22	11/16" 12 Point Socket	C34	Center Punch
A24	3/4" 12 Point Socket	C29	Pin Punch, 3/16" Point
A25	25/32" 12 Point Socket	E02	2-1/4" Blade Neon Screw-
A26	13/16" 12 Point Socket		driver
A28	7/8" 12 Point Socket	Compo	osition HandleScrewdriver
A605	Extension, 5"	_	
A610	Extension, 10"	04	4" Blade
A775	Cross Handle, 8"	06	6" Blade
A722	Hinge Handle, 15"	010	10" Blade
A700	Reversible Ratchet, 10"	CP2	#2 Tip 4" Phil. Sc. Dr.
1161	7/16" Comb. Wrench	PH7	16 oz. Ball Pein Hammer
1162	1/2" Comb. Wrench	2628	Adj. Hack Saw Frame
			w/Blade

AM20B — Tools in this set were selected for heavy work on passenger cars, trucks, buses, tractors, farm and industrial machinery. Packed in metal box MB68. 34 PIECES, SHIPPING WEIGHT 35.313 LBS.

AA20B

Width 21-7/8" Depth 9-1/4" Height 5"

Part 1	No. Description	Part No.	Description
A14 A16 A18 A19 A20 A22 A24 A25 A26 A28 AS14	7/16" 12 Point Socket 1/2" 12 Point Socket 9/16" 12 Point Socket 19/32" 12 Point Socket 5/8" 12 Point Socket 11/16" 12 Point Socket 3/4" 12 Point Socket 25/32" 12 Point Socket 13/16" 12 Point Socket 7/8" 12 Point Socket	Part No. A610 A775 A760 A722 A700 R30 R32 R34 R36 R40 R42	Description Extension, 10" Cross Handle, 8" Universal Joint Hinge Handle, 15" Reversible Ratchet, 10" 15/16" 12 Point Socket 1" 12 Point Socket 1-1/16" 12 Point Socket 1-1/8" 12 Point Socket 1-1/4" 12 Point Socket 1-1/4" 12 Point Socket 1-5/16" 12 Point Socket
AS16 AS18 A785 A740 A730 A605	1/2" 8 Point Socket 9/16" 8 Point Socket Drag Link Socket Speeder, 14" Sliding "T" Handle, 11"	R46 R48 R52 R609 R617 R730	1-7/16" 12 Point Socket 1-1/2" 12 Point Socket 1-5/8" 12 Point Socket Extension, 8-1/2" Extension, 17" Sliding "T" Handle, 20"



AM28B — This set contains most of the popular 1/4", 3/8", and 1/2" square drive sockets and attachments in addition to open end wrenches and 15 degree angle box wrenches. Packed in metal box MB60. 50 PIECES, SHIP-PING WEIGHT 16.188 LBS.



INCH SQUARE DRIVE Width 21-7/8" Depth 9-1/4" Height 5"

Part No. Description	Part No. Description
V10 5/16" 12 Point Socket	A30 15/16" 12 Point Socket
V11 11/32" 12 Point Socket	A32 1" 12 Point Socket
V12 3/8" 12 Point Socket	LD20 5/8" Extra Deep Socket,
V14 7/16" 12 Point Socket	3-1/4" Long
V730 Sliding "T" Handle, 4-1/2"	LD22 11/16" Extra Deep Socket,
V606 Extension, 6"	3-1/4" Long
T12 3/8" 12 Point Socket	LD26T 13/16" Extra Deep Socket, 3-1/4" Long
T14 7/16" 12 Point Socket	LD28T 7/8" Extra Deep Socket,
T16 1/2" 12 Point Socket	3-1/4" Long
T18 9/16" 12 Point Socket	A605 Extension, 5"
T20 5/8" 12 Point Socket	A610 Extension, 10"
T22 11/16" 12 Point Socket	A775 Cross Handle, 8"
T24 3/4" 12 Point Socket	A722 Hinge Handle, 15"
T606 Extension, 6" T612 Extension, 12"	A701 Reversible Ratchet, 10"
T720 Hinge Handle, 8"	Open End St. Wrench
T775 Cross Handle, 6"	E1214 3/8" & 7/16"
T701 Reversible Ratchet, 7"	E1618 1/2" & 9/16"
A14 7/16" 12 Point Socket	E2022 5/8" & 11/16"
A16 1/2" 12 Point Socket	E1925 19/32" & 25/32"
A18 9/16" 12 Point Socket	E2426 3/4" & 13/16"
A19 19/32" 12 Point Socket	E2830 7/8" & 15/16"
A20 5/8" 12 Point Socket	15° Angle Box Wrench
A22 11/16" 12 Point Socket	2890 3/8" & 7/16"
A24 3/4" 12 Point Socket	2891 1/2" & 9/16"
A25 25/32" 12 Point Socket	2892 5/8" & 11/16"
A26 13/16" 12 Point Socket	2893 3/4" & 13/16"
A28 7/8" 12 Point Socket	2894 7/8" & 15/16"

Bonney tool sets are especially designed to cover specific types of jobs with all of the tools necessary to complete these jobs. In most cases, the sets are basic and can be added to to round out any particular drive size. Any information not covered in this section can be secured by writing to Bonney Forge & Tool Works in Alliance, Ohio. Special tools are an outstanding feature with Bonney.

TOOL SETS 1/2 INCH SQUARE DRIVE





AM36B — This set is designed as a mechanic's main tool set, consisting of popular sockets and attachments in 1/2" drive, plus open end wrenches, combination wrenches, chisels, punches, pliers, box wrenches, screwdrivers, hack saw, and hammers. Packed in metal box MB76. 72 PIECES, SHIPPING WEIGHT 68.500 LBS.

Description
Open End Straight Wrench
3/8" & 7/16"

1/2" & 9/16"

Part No.

E1214

E1618

AM36B

Width 23-1/8" Depth 11-1/8" Height 10-3/4"

	E2022 5/8" & 11/16"
	E1925 19/32" & 25/32"
	E2426 3/4" & 13/16"
	E2830 7/8" & 15/16"
	Tappet Wrench
	422 1/2" & 9/16" 2 each
	424 5/8" & 11/16" 2 each
Part No. Description	, , , , , , , , , , , , , , , , , , , ,
A14 7/10// 10 Deint Genlert	12 Point Box Wrench 2804L 3/8" & 7/16"
A14 7/16" 12 Point Socket	,
A16 1/2" 12 Point Socket	2805L 1/2" & 9/16"
A18 9/16" 12 Point Socket	2807A 5/8" & 11/16"
A19 19/32" 12 Point Socket	2808 3/4" & 7/8"
A20 5/8" 12 Point Socket	2810 15/16" & 1"
A22 11/16" 12 Point Socket	C2 Blade Chisel, 7/16" Cut
A24 3/4" 12 Point Socket	C4 Blade Chisel, 3/4" Cut
A25 25/32" 12 Point Socket	C6 Blade Chisel, 1" Cut
A26 13/16" 12 Point Socket	C12 Blade Cape Chisel, 1/4" Cut
A28 7/8" 12 Point Socket	C15 Blade Diamond Chisel, 1/4" Cut
A30 15/16" 12 Point Socket	C21 Pt. Solid Punch, 1/16" Point
A32 1" 12 Point Socket	C23 Solid Punch, 1/8" Point
LD22 11/16" Ex. Deep Socket, 12 Pt.	C25 Taper Punch, 5/32" Point
LD26T 13/16" Ex. Deep Socket, 12 Pt.	C28 Pin Punch, 1/8" Point
LD28T 7/8" Ex. Deep Socket, 12 Pt.	C30 Pin Punch, 1/4" Point
AS16 1/2" 8 Point Socket	C34 Center Punch
AS18 9/16" 8 Point Socket	C38 Pinch Bar, 16"
2591 5/16"-3/4" Stud Wrench	001-2 Screwdriver, 2" Blade E03 Bl. Neon Screwdriver, 3" Blade
A785 15/16" Drag Link Socket A740 Speeder, 14"	S01 Bl. Adj. Screwdriver, 1-3/4" Bl.
A740 Speeder, 14" A730 Sliding "T" Handle, 11"	S01 Bl. Adj. Screwdriver, 1-5/4 Bl. S04 Bl. Adj. Screwdriver, 4" Blade
A605 Extension, 5"	06 Screwdriver, 6" Blade
A610 Extension, 10"	08 Screwdriver, 8" Blade
A775 Cross Handle, 8"	006 Screwdriver, 6" Blade
A760 Universal Joint	CP2 Phillips Screwdriver, Screws 5-9
A722 Hinge Handle	PH2 Ball Pein Hammer, 2 oz.
A701 Reversible Ratchet, 10"	PH7 Ball Pein Hammer, 16 oz.
1161 7/16" 12 Point Comb. Wrench	B45 Rib Joint Plier
1162 1/2" 12 Point Comb. Wrench	B35 Ignition Plier
1163 9/16" 12 Point Comb. Wrench	2628 Hack Saw
1164 5/8" 12 Point Comb. Wrench	K54 Standard Feeler Gauge
John State Comb. Wichen	1



Part No.

A701

AM44B — This set also designed as a mechanic's main tool set, much like the AM36B, but not including screwdrivers, pliers, hack saw, hammers, chisels, and punches. A complete set offering 3/8", 1/2", and 3/4" square drive sockets and attachments. Packed in metal box MB76. 70 PIECES, SHIPPING WEIGHT 75.500 LBS.

Description

BONNEY	
	u suc
	31-39
	AM44B

Width 23-1/8" Depth 11-1/8" Height 10-3/4"

			- 6
T10	5/16" 12 Point Socket		,
T12	3/8" 12 Point Socket		
T14	7/16" 12 Point Socket		
T16	1/2" 12 Point Socket		
T18	9/16" 12 Point Socket		
T19	19/32" 12 Point Socket		
T20	5/8" 12 Point Socket		
T760	Universal Joint		
T606	Extension, 6"		
T612	Extension, 12"		
T742	· ·	Part No.	
T720	Speeder, 17-1/2" Hinge Handle, 8-1/2"		
T775	Cross Handle, 6"	R34	1-1
T701	Reversible Ratchet, 8"	R36	1-1
T730	Sliding "T" Handle, 8" 7/16" 8 Point Socket	R40 R42	1-1 1-5
AS14	7/16" 8 Point Socket	R46	1-7
AS16	1/2" 8 Point Socket 9/16" 8 Point Socket	R48	1-1
AS18	7/16" 8 Point Socket 7/16" 12 Point Socket	R52	1-5
A14 A16	1/2" 12 Point Socket	R730	Sli
A18	9/16" 12 Point Socket	R609	Ex
A19	19/32" 12 Point Socket	R617	Ex
A20	5/8" 12 Point Socket		Op
A22	11/16" 12 Point Socket	H10	•
A24	3/4" 12 Point Socket	H12	
A25 A26	25/32" 12 Point Socket 13/16" 12 Point Socket	H14	
A28	7/8" 12 Point Socket	H16 H18	
A30	15/16" 12 Point Socket	1110	-
	" 12 Point Socket	74044	Op
A785	15/16" Drag Link Socket	E1214	
	-1/4" Drag Link Socket	E1618 E2022	
LD22 LD26T	11/16" Ex. Deep Socket, 12 Pt.	E2426	
LD28T	13/16" Ex. Deep Socket, 12 Pt. 7/8" Ex. Deep Socket, 12 Pt.	E2830	
A740	Speeder, 14"		D:
A744	Speeder, 19-3/4"	2725B	Ri
A730	Sliding "T" Handle, 11"		
A605	Extension, 5"	2804	Bo
A610	Extension, 10"	2805	Bo
A775	Cross Handle, 8"	2807A	Bo
A760 A722	Universal Joint Hinge Handle, 15"	2808 2810	Bo Bo
41122	D '11 D '11 '10"	2010	DU

Reversible Ratchet, 10"

Part No.	Description		
R34 R36 R40 R42 R46 R48 R52 R730 R609 R617	1-1/16" 12 Point Socket 1-1/8" 12 Point Socket 1-1/4" 12 Point Socket 1-5/16" 12 Point Socket 1-7/16" 12 Point Socket 1-1/2" 12 Point Socket 1-5/8" 12 Point Socket Sliding "T" Handle, 20" Extension, 8-1/2" Extension, 17"		
H10 H12 H14 H16 H18	Open End Miniature Wrench 3/16" & 7/32" 1/4" & 9/32" 5/16" & 11/32" 3/8" & 7/16" 13/32" & 15/32"		
E1214 E1618 E2022 E2426 E2830	Open End Straight Wrench 3/8" & 7/16" 1/2" & 9/16" 5/8" & 11/16" 3/4" & 13/16" 7/8" & 15/16"		
2725B	Right Angle Wrench 1/2" & 9/16"		
2804 2805 2807A 2808 2810	Box Wrench, 3/8" & 7/16" Box Wrench, 1/2" & 9/16" Box Wrench, 5/8" & 11/16" Box Wrench, 3/4" & 7/8" Box Wrench, 15/16" & 1"		

TOOL SET AM48 1/4-3/8-1/2-3/4 INCH SQUARE DRIVE (



AM48B - This set contains the popular sockets and attachments in 1/4", 3/8", 1/2", and 3/4" square



drive plus open end and box end wrenches. This is an ideal set for the mechanic who wants to begin with a range of drive ends which can be added to as needed. Packed in metal box MB76. 84 PIECES, SHIPPING WEIGHT 79.500 LBS.

Part No.

Description

AM48B Width 23-1/8"

Depth 11-1/8" Height 10-3/4"

1 410 110.	D cocription
T12	3/8" 12 Point Socket
T14	7/16" 12 Point Socket
T16	1/2" 12 Point Socket
T18	9/16" 12 Point Socket
T20	5/8" 12 Point Socket
T22	11/16" 12 Point Socket
T24	7/16" 12 Point Socket 1/2" 12 Point Socket 1/2" 12 Point Socket 9/16" 12 Point Socket 5/8" 12 Point Socket 11/16" 12 Point Socket 3/4" 12 Point Socket
T606	Extension, 6"
T612	Extension, 12"
T720	Hinge Handle, 8-1/2"
T775	Cross Handle 6"
T701	Reversible Ratchet, 7"
A14	7/16" 12 Point Socket
A16	1/2" 12 Point Socket
A18	9/16" 12 Point Socket
A19	Reversible Ratchet, 7" 7/16" 12 Point Socket 1/2" 12 Point Socket 9/16" 12 Point Socket 19/32" 12 Point Socket 19/8" 12 Point Socket
A20	5/8" 12 Point Socket
A22	
A24	3/4" 12 Point Socket 25/32" 12 Point Socket 13/16" 12 Point Socket 7/8" 12 Point Socket
A25	25/32" 12 Point Socket
A26	13/16" 12 Point Socket
A28	7/8" 12 Point Socket
A30	15/16" 12 Point Socket
A32 1	" 12 Point Socket
LD20	5/8" Extra Deep Socket
	3-1/4" Long
LD22	11/16" Extra Deep Socket
	3-1/4" Long
LD26T	13/16" Extra Deep Socket
	3-1/4" Long
LD28T	7/8" Extra Deep Socket
	3-1/4" Long
AS14	7/16" 8 Point Socket
AS16	1/2" 8 Point Socket
AS18	1/2" 8 Point Socket 9/16" 8 Point Socket
A744	Speeder, 20"
A605	Extension, 5"
A610	Extension, 10"
A775	Cross Handle, 8"

	Part No.	Description	
	A722	Hinge Handle, 15"	
	A701	Reversible Ratchet, 10"	
	R34	1-1/16" 12 Point Socket 1-1/8" 12 Point Socket 1-1/4" 12 Point Socket	
	R36	1-1/8" 12 Point Socket	
	R40	1-1/4" 12 Point Socket	
	R42	1-5/16" 12 Point Socket	
	R46	1-7/16" 12 Point Socket	
	R48	1-7/16" 12 Point Socket 1-1/2" 12 Point Socket	
	R701	Reversible Ratchet, 20"	
	R730	Sliding "T" Handle, 20"	
	R609	Extension, 8-1/2"	
	1000	Open End Miniature Wrench	
	H10		
ı	H12	3/16" & 7/32" 1/4" & 9/32"	
	H14	5/16" & 11/32"	
	H16	3/8" & 7/16"	
	H18	13/32" & 15/32"	
l	422	Tappet Wrench, 1/2" & 9/16" 2 es	ac
l	424	Tappet Wrench, 5/8" & 11/16" 2 es	ac
Ì	424	Tappet Wrench, 3/4" & 7/8" 2 es	ac
l	420	Open End Streamlined Wrench	•
l	E1214	9/9" & 7/16"	
l	E1214 E1618	1/9" & 0/16"	
l		3/8" & 7/16" 1/2" & 9/16" 5/8" & 11/16" 19/32" & 25/32"	
ı	E2022	10/20" & 25/20"	
ŀ	E1925 E2426	9 /4" 6 19 /99"	
ı		3/4" & 13/32" 7/8" & 15/16"	
ı	E2830		
ŀ	0000	15° Angle Box Wrench 3/8" & 7/16"	
l	2890	3/8" & 7/16" 1/2" & 9/16" 5/8" & 11/16" 3/4" & 13/16"	
	2891	1/2 & 9/10 5/9" & 11/1C"	
	2892	0/0 & 11/10	
	2893	7/9" 2 15/10"	
	2894	7/8" & 15/16" 1" & 1-1/8"	
	2895C		
	2591	Stud Wrench	
	V Line	Sub-Assembly Set	
	V6	3/16" 12 Point Socket 7/32" 12 Point Socket	
	V7	1/32" 12 Point Socket	
	V8	1/4" 12 Point Socket	
	V9	9/32" 12 Point Socket	
I	V10	5/16" 12 Point Socket	
I	V11	11/32" 12 Point Socket 3/8" 12 Point Socket	
I	V12	7/16// 10 Point Socket	
I	V14	7/16" 12 Point Socket	
I	V730	Sliding "T" Handle, 4-1/2"	
I	V606	Extension, 6"	

V602 V720

V775

Extension, 2"

Hinge Handle, 5-3/4"

Cross Handle, 3-1/2"

AM60B — This is the most complete assortment of tools in a Bonney set comprising 1/4", 3/8", 1/2", and 3/4" square drive sockets and attachments. Packed in metal box MB82. 143 PIECES, SHIPPING WEIGHT 135.000 LBS.



AM60B

Width 26-1/8" Depth 12" Height 14-1/4"

WEIGHT 135.000 LDS.	
Part No. Description	Part No. Description
T12 3/8" 12 Point Socket	R42 1-5/16" 12 Point Socket
T14 7/16" 12 Point Socket	R46 1-7/16" 12 Point Socket
T16 1/2" 12 Point Socket	R48 1-1/2" 12 Point Socket
T18 9/16" 12 Point Socket	R52 1-5/8" 12 Point Socket
T20 5/8" 12 Point Socket	R54 1-11/16" 12 Point Socket
T22 11/16" 12 Point Socket	R58 1-13/16" 12 Point Socket
T24 3/4" 12 Point Socket	R704 Reversible Ratchet, 20"
T27 Drag Link Socket	R730 Sliding "T" Handle, 20"
T760 Universal Joint	R609 Extension, 8-1/2"
T606 Extension, 6"	R617 Extension, 17"
T612 Extension, 12"	6 Point Small Box Wrench
T742 Speeder, 17-1/2"	E40 3/16" & 13/64"
T720 Hinge Handle, 8-1/2"	E42 7/32" & 15/64"
T603 Extension, 3"	12 Point Small Box Wrench
T775 Cross Handle, 6"	E44 1/4" & 9/32"
T701 Reversible Ratchet, 7"	E46 5/16" & 11/32"
TU14 7/16" Flex. 12 Point Socket	12 Point Box Wrench
TU16 1/2" Flex. 12 Point Socket	2804 3/8" & 7/16"
TU18 9/16" Flex. 12 Point Socket	2805 1/2" & 9/16"
TU20 5/8" Flex. 12 Point Socket	2805L 1/2" & 9/16"
A14 7/16" 12 Point Socket	2807A 5/8" & 11/16"
A16 1/2" 12 Point Socket A18 9/16" 12 Point Socket	2808 3/4" & 7/8"
A18 9/16" 12 Point Socket A19 19/32" 12 Point Socket	2810 15/16" & 1" Open End Miniature Wrench
A20 5/8" 12 Point Socket	H10 3/16" & 7/32"
A22 11/16" 12 Point Socket	H12 1/4" & 9/32"
A24 3/4" 12 Point Socket	H14 5/16" & 11/32"
A25 25/32" 12 Point Socket	H16 3/8" & 7/16"
A26 13/16" 12 Point Socket	H18 13/32" & 15/32"
A28 7/8" 12 Point Socket	Open End Straight Wrench
A30 15/16" 12 Point Socket	E1214 3/8" & 7/16"
A32 1" 12 Point Socket	E1618 1/2" & 9/16"
A785 Drag Link Socket	E2022 5/8" & 11/16"
AS14 7/16" 8 Point Socket	E1925 19/32" & 25/32"
AS16 1/2" 8 Point Socket	E2426 3/4" & 13/16"
AS18 9/16" 8 Point Socket	E2830 7/8" & 15/16"
AS20 5/8" 8 Point Socket	422 (2) Tappet Wrench, 1/2" & 9/16"
AS24 3/4" 8 Point Socket	424 (2) Tappet Wrench, 5/8" & 11/16"
LD22 11/16" Extra Deep Socket	426 (2) Tappet Wrench, 3/4" & 7/8"
LD26T 13/16" Extra Deep Socket LD28T 7/8" Extra Deep Socket	B29 7" Thin Nose, Slip Joint, Side
A740 Speeder, 14"	Cutting Plier B310 10" Slip Joint Plier
A744 Speeder, 14 A744 Speeder, 20"	B17 6" Diagonal Cutting Plier
A730 Sliding "T" Handle, 11"	B23 8" Lineman's Cutting Plier
A605 Extension, 5"	B45 10" Rib Joint Plier (Pump)
A602 Extension, 2"	B35 Ignition Plier
A610 Extension, 10"	PH2 2 oz. Ball Pein Hammer
A775 Cross Handle, 8"	PH7 16 oz. Ball Pein Hammer
A760 Universal Joint	PH10 2 lb. Ball Pein Hammer
A722 Hinge Handle, 15"	PH20 16 oz. Soft Face Hammer
A701 Reversible Ratchet, 10"	C2 Blade Chisel, 7/16" Cut
R32 1" 12 Point Socket	C4 Blade Chisel, 3/4" Cut
R34 1-1/16" 12 Point Socket	C6 Blade Chisel, 1" Cut
R36 1-1/8" 12 Point Socket	C21 Point Solid Punch, 1/16" Point
R40 1-1/4" 12 Point Socket	(Continued on next page)

TOOL SETS - 3/4 AND 1 INCH SQUARE DRIVE



AM60B Cont'd.

	Part No.	Description	Part No.	Description
I	C26	Taper Punch, 3/16" Point	2591	Stud Wrench, 5/16" to 3/4"
	C28	Point Pin Punch, 1/8" Point	2881	Starter Wrench
	C29	Pin Punch, 3/16" Point	K8	8" Holding Tool
	C34	Center Punch	K52	Ignition Feeler Tool
	C36	Rivet Buster, 5/8" Cut	K53	Univ. Mast. Feeler Gauge
	C38	Pinch Bar, 16" Long	2628	Hack Saw (Adjustable)
	001-2	Screwdriver, 2" Blade	V6	3/16" 12 Point Socket
	CP2	Phillips Screwdriver	V7	7/32" 12 Point Socket
	006	Screwdriver, 6" Blade	V8	1/4" 12 Point Socket
	0010	Screwdriver, 10" Blade	V9	9/32" 12 Point Socket
	E03	Bl. Neon Screwdriver	V10	5/16" 12 Point Socket
		Bl. Adjusting Screwdriver	V11	11/32" 12 Point Socket
	S01	1-3/4" Blade	V12	3/8" 12 Point Socket
	S04	4" Blade	V14	7/16" 12 Point Socket
	06	Screwdriver, Round Shank,	VS8	1/4" 8 Point Socket
		6" Blade	VS10	5/16" 8 Point Socket
	08	Screwdriver, Square Shank,	VS12	3/8" 8 Point Socket
		8" Blade	V730	Sliding "T" Handle, 4-1/2"
	S012	Bl. Adjusting Screwdriver, 12"	V606	Extension, 6"
		Blade (Square Shank)	V602	Extension, 2"



TOOL SETS 3/4 INCH SQUARE DRIVE

HD1B — This set consists of a complete range of 3/4" square drive 12 point sockets and attachments especially designed for heavy duty work on buses, trucks, tractors, and industrial machinery. Packed in metal box MB68. 20 PIECES, SHIPPING WEIGHT 43.688 LBS.

HD1B 1/2 - 3/4 INCH SQUARE DRIVE Width 21-7/8" Depth 9-1/4"

Height 5"

D		D : ::	Part No.	Description
Part No.		Description	R58	1-13/16" 12 Point Socket
R30	15/16"	12 Point Socket	R60	1-7/8" 12 Point Socket
R32	1"	12 Point Socket	R64	2" 12 Point Socket
R34	1-1/16"	12 Point Socket	R701	Reversible Ratchet, 20"
R36		12 Point Socket	R730	Sliding "T" Handle, 20"
R40		12 Point Socket	R720	Hinge Handle, 22"
R42	1-5/16"	12 Point Socket	R775	Cross Handle, 16-3/8", for
R46	1-7/16"	12 Point Socket		No. 4288
R48		12 Point Socket	R609	Extension, 8-1/2"
R52		12 Point Socket	R604	Extension, 4"
R54	1-11/16"	12 Point Socket	R617	Extension, 17"



TOOL SETS I INCH SQUARE DRIVE

XH1B — This set includes a complete line of the 1" drive sockets plus the new design Bonney 1" drive ratchet for extra heavy duty work. Packed in metal box MB64. 8 PIECES, SHIPPING WEIGHT

XHIB

1/2 - 3/4 INCH SQUARE DRIVE Width 21-7/8" Depth 9-1/4" Height 5"

Part No. Descript	ion Part No	. Description
X46 1-7/16" Socket X48 1-1/2" Socket X52 1-5/8" Socket	X64 X70 X76 X701	2" Socket 2-3/16" Socket 2-3/8" Socket Ratchet, 20"
X58 1-13/16" Socket	A101	Ratchet, 20



TOOL SETS — SCREWDRIVERS

CL — Consists of one each of 5 size clutch head screwdriver blades ranging from 1-5/8" to 6". This set is packaged in a cardboard container. 5 PIECES, SHIPPING WEIGHT 1.500 LBS.

Part No. Description	Part No. Description
CL3 Cl. Hd. 4" Screwdriver, Bit Clutch Size 5/32" CL5 Cl. Hd. 6" Screwdriver, Bit Clutch Size 1/4" CL7 Cl. Hd. 6" Screwdriver, Clutch Size 5/16"	CL13 Cl. Hd. 1-5/8" Screwdriver, Bit Clutch Size 5/32" CL15 Cl. Hd. 1-5/8" Screwdriver, Bit Clutch Size 1/4"

CP — This set will answer all requirements for screw-drivers to fit Phillips screws. The molding, hinges, and interior chrome trim are usually fastened with Phillips screws. This set includes 4 screwdrivers ranging in blade length from 3" to 8". Packed in cardboard box. 4 PIECES, SHIPPING WEIGHT 1.250 LBS.

Part	Part
No. Description	No. Description
CP1 3" Blade Phillips Screwdriver	CP3 6" Blade Phillips Screwdriver
CP2 4" Blade Phillips Screwdriver	CP4 8" Blade Phillips Screwdriver

WP — This set includes one each of the WP series wood handle screwdrivers ranging in blade length from 3" to 8". Packed in cardboard box. 4 PIECES, SHIPPING WEIGHT 1.313 LBS.

Part	Part
No. Description	No. Description
WP1 3" Blade Phillips Screwdriver WP2 4" Blade Phillips Screwdriver	WP3 6" Blade Phillips Screwdriver WP4 8" Blade Phillips Screwdriver

W05—This set consists of 5 wood handle screwdrivers ranging in blade length from 3" to 10". Packed in cardboard box. 5 PIECES, SHIPPING WEIGHT 2.250 LBS.

Part No.	Description	Part No.	Description
WO3 WO4 WO6	3" Blade Screwdriver 4" Blade Screwdriver 6" Blade Screwdriver	WO8 WO10	8" Blade Screwdriver 10" Blade Screwdriver

0672 — This set consists of 3 offset screwdrivers which permit adjustments where standard screwdrivers are too large. These tools are available separately or packaged in cardboard box. Lengths of these screwdrivers vary from 4-7/8" to 5-7/8". 3 PIECES, SHIPPING WEIGHT .470 LBS.

	Part No.	Description	Part No.	Description
ĺ	0669 0670	Offset Screwdriver, 4-7/8" Offset Screwdriver, 5-3/8"	0671	Offset Screwdriver, 5-7/8"







CP









0672

TOOL SETS - IN POCKET TYPE ROLLS





N₅R





N5R — This set consists of 11 popular size hexagonal keys packaged in plastic envelope. These sets are sold in dozen lots. 11 PIECES IN PLASTIC ROLL LR5. PER SET, SHIPPING WEIGHT .625 LBS.

Part No.	Description	Part No.	Description
AW1 AW2 AW2-1/2 AW3 AW4	Hexagonal Key .050" Across Flats 1/16" Across Flats 5/64" Across Flats 3/32" Across Flats 1/8" Across Flats	AW5 AW6 AW7 AW8 AW10 AW12	5/32" Across Flats 3/16" Across Flats 7/32" Across Flats 1/4" Across Flats 5/16" Across Flats 3/8" Across Flats

N8 — This set includes all the necessary tools for the proper camber-caster adjustments. Packed in cardboard container. 9 PIECES, SHIPPING WEIGHT .595 LBS.

Part No.	Description	Part No.	Description
1611 (For 1612 (Chr 1613 (Hu 1614 (For	dson) 1-13/32" Opening dson) 1-7/16" Opening d) 1-1/2" Opening	1238 (Ford) All Gen. TW10 Motors	Service Wrench 1-3/16" Opening Socket Head Wrench 3/8" Drive
1615 (Old	dillac)1-3/8" Opening	Cars	6/0 Blive

N11R — This set is designed for ignition service. Contains 6 small open end wrenches especially designed for this type of work. Also includes necessary feeler gauge, ignition plier, point file, small adjustable wrench, and neon tube screwdriver. Packed in plastic roll LR36. 10 PIECES, SHIPPING WEIGHT .625 LBS.

Part No.	Description	Part No	. Description
E14 E16 E18 E20 E22	Electric Wrench 15° End 60° End 13/64" & 15/64" 15/64" & 13/64" 7/32" & 1/4" 1/4" & 7/32" 9/32" & 5/16"	E24 BW4 5-3/8" E02 K52 B35	Electric Wrench 5/16" & 9/32" Adjust. End Wrench, 4" Point File Bl. Neon Screwdriver Ignition Feeler Gauge Ignition Plier

N13R — The tools contained in this set are especially designed to handle all types of ignition repair and adjustment plus many adjustments on electrical system. Each wrench is especially designed for its particular application. Packed in plastic roll LR36. 10 PIECES, SHIPPING WEIGHT .625 LBS.

Part No.	Description	Part No.	Description
E2	Ignition Wrench 1/4" & 1/4" 17/64"-9/32"-11/32" 5/16" 5/16" 5/16"	E7	15/64" & 17/64"
E3		E8	7/32" & 7/16"
E4		E9	1/2"
E5		E10	3/8" & 7/16"
E6		E11	15/64" & 9/32"

N13R

NIIR



TOOL SETS - IN POCKET TYPE ROLLS

N20R — This set includes 5 miniature wrenches designed especially for perfect fit on small applications. Tiny in size, but built for strength and durability. Packed in plastic roll LR24, 5 PIECES. SHIPPING WEIGHT .313 LBS.

Part No. Description	Part No.	Description
O. E. Miniature Wrench	H14	5/16" & 11/32"
H10 3/16" & 7/32"	H16	3/8" & 7/16"
H12 1/4" & 9/32"	H18	13/32" & 15/32"

N20R

N24R — This set includes 9 open end wrenches designed for adjustments on electrical system and ignition repair. Packed in plastic roll LR28. 9 PIECES, SHIPPING WEIGHT .469 LBS.



N24R

Part No.	Description	Part No.	Description
E14 E16 E18 E20	Electric Wrench 13/64" & 15/64" 15/64" & 13/64" 7/32" & 1/4" 1/4" & 7/32"	E22 E24 E26 E28 E30	9/32" & 5/16" 5/16" & 9/32" 11/32" & 3/8" 3/8" & 11/32" 7/16" & 1/2"

N45R — This set contains 6 open end wrenches in popular sizes from 1/4" to 15/16" openings. Packed in plastic roll LR56. 6 PIECES, SHIPPING WEIGHT 1.843 LBS.



N45R

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	Part No.	Description	Part No.	Description
	E810 E1214 E1618	Open End Str. Wrench 1/4" & 5/16" 3/8" & 7/16" 1/2" & 9/16"	E2022 E2426 E2830	5/8" & 11/16" 3/4" & 13/16" 7/8" & 15/16"

N46R — This set contains 6 streamlined Bonney wrenches, openings ranging from 5/16" to 1". Packed in plastic roll LR56. 6 PIECES, SHIPPING WEIGHT 2.313 LBS.

Part No.	Description	Part No.	Description
E1012	Open End Str. Wrench 5/16" & 3/8" 7/16" & 1/2" 9/16" & 5/8"	E2224	11/16" & 3/4"
E1416		E2628	13/16" & 7/8"
E1820		E3032	15/16" & 1"

N46R

N56R — This set includes 5 standard combination wrenches representing the popular openings from 7/16" to 11/16". Packed in plastic roll LR72. 5 PIECES, SHIPPING WEIGHT 1.250 LBS.

Part No.	Description		Part No.	Description	
1161 1162	2 Point Comb. Wre 7/16" 1/2"	nch	1163 1164 1165	9/16" 5/8" 11/16"	



N56R

TOOL SETS - IN POCKET TYPE ROLLS





N₆0R



N61R



N64R



N65R



N₆₈R

N60R — This set is made up of 5 combination wrenches in 12 point box end and ranging in openings from 7/16" to 11/16". Packed in plastic roll LR72. 5 PIECES, SHIPPING WEIGHT 1.563 LBS.

Part No.	Description	Part No.	Description	
1114 1116	Point Comb. Wrench 7/16" 1/2"	1118 1120 1122	9/16" 5/8" 11/16"	/

N61R — This set is made up of 5 combination wrenches in the popular 6 point box end ranging in openings from 7/16" to 11/16". Packed in plastic roll LR72. 5 PIECES, SHIP-PING WEIGHT 1.532 LBS.

Part No.	Description	Part No.	Description
1116H	7/16" 6 Pt. Comb. Wrench 1/2" 6 Pt. Comb. Wrench 9/16" 6 Pt. Comb. Wrench	1122H 1	5/8" 6 Pt. Comb. Wrench 1/16" 6 Pt. Comb. Wrench

N64R — This set is made up of 7 combination wrenches featuring 12 point box end and openings ranging from 3/8" to 3/4". Packed in plastic roll LR80. 7 PIECES, SHIPPING WEIGHT .222 LBS.

Part No.	Description	Part No.	Description
1112 1114 1116 1118	12 Point Comb. Wrench 12 Point Comb. Wrench 12 Point Comb. Wrench 12 Point Comb. Wrench		12 Point Comb. Wrench 12 Point Comb. Wrench 12 Point Comb. Wrench

N65R — This set is composed of 7 combination wrenches with 6 point box end and openings ranging from 3/8" to 3/4". Packed in plastic roll LR80. 7 PIECES, SHIPPING WEIGHT .242 LBS.

Part No.	Description	Part No. Description
1112H 1114H	3/8" 6 Pt. Comb. Wrench 7/16" 6 Pt. Comb. Wrench	1122H 11/16" 6 Pt. Comb. Wrench
1116H 1118H	1/2" 6 Pt. Comb. Wrench 9/16" 6 Pt. Comb. Wrench	1124H 3/4" 6 Pt. Comb. Wrench

N68R — This set is made up of 8 popular combination wrenches in openings from 3/8" to 7/8". Packed in plastic roll LR84. 8 PIECES, SHIPPING WEIGHT .250 LBS.

Part No.	Description	Part No.	Description
1160 1161 1162 1163	3/8" 12 Pt. Comb. Wrench 7/16" 12 Pt. Comb. Wrench 1/2" 12 Pt. Comb. Wrench 9/16" 12 Pt. Comb. Wrench	1165 1166	5/8" 12 Pt. Comb. Wrench 11/16" 12 Pt. Comb. Wrench 3/4" 12 Pt. Comb. Wrench 7/8" 12 Pt. Comb. Wrench



TOOL SETS-IN POCKET TYPE ROLLS

N80R — This set is made up of extra small box end wrenches ideal for repair work on generators, carburetors, starters, and electrical systems where parts are small and limited space available. Packed in plastic roll LR8. 4 PIECES, SHIPPING WEIGHT .188 LBS.

Part No.	Description	Part No.	Description	N
E40 E42	6 Point Small Box Wrench 3/16" & 13/64" 7/32" & 15/64"	E44 E46	12 Point Small Box Wre 1/4" & 9/32" 5/16" & 11/32"	nch

N93R—This set is made up of 5 long type double off-set box wrenches in openings ranging from 3/8" to 15/16". Packed in plastic roll LR97. 5 PIECES, SHIPPING WEIGHT .325 LBS.

Part No. Description	Part No.	Description	
12 Point Box Wrench 2804L 3/8" & 7/16" 2805L 1/2" & 9/16"	2807A 2808F 2809	5/8" & 11/16" 3/4" & 13/16" 7/8" & 15/16"	N

N98R-This set contains 5 long type wrenches in openings ranging from $3/8^{\prime\prime}$ to $15/16^{\prime\prime}.$ Packed in plastic roll LR97. 5 PIECES, SHIPPING WEIGHT .428 LBS.

Part No. Description	Part No.	Description
12 Point Angle Box W 2891 1/2" & 9/16' 2892 5/8" & 11/16'	2894	3/4" & 11/16" 7/8" & 15/16" 1" & 1-1/8"

C45R — This set includes a good assortment of flat chisels covering most straight cutting operations. Packed in plastic roll LR70. 5 PIECES, SHIPPING WEIGHT 3.500 LBS.

•	Part No.	Description	Part No.	Description
	C2 C3 C4	7/16" Cut Blade Chisel 5/8" Cut Blade Chisel 3/4" Cut Blade Chisel	C5 C6	7/8" Cut Blade Chisel 1" Cut Blade Chisel

C46R — This set includes a good assortment of chisels and punches which will cover most applications for the average mechanic. Packed in plastic roll LR96. 13 PIECES, SHIP-PING WEIGHT 6.375 LBS.

	Part No.	Description	Part No.	Description
ĺ	C2	7/16" Cut Blade Chisel	C15	1/4" Cut Blade Diamond
	C3	5/8" Cut Blade Chisel		Chisel
	C4	3/4" Cut Blade Chisel	C16	3/8" Cut Blade Diamond
	C5	7/8" Cut Blade Chisel		Chisel
	C6	1" Cut Blade Chisel	C28	1/8" Point Pin Punch
	C12	1/4" Cut	C29	3/16" Point Pin Punch
		Blade Cape Chisel	C30	1/4" Point Pin Punch
	C13	3/8" Cut	C34	5" Length Center Punch
		Blade Cape Chisel		8









C45R



C46R

TOOL SETS - BODY & FENDER TOOLS





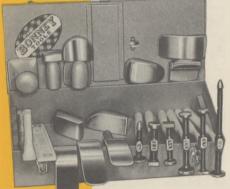
FB3B — The tools contained in this set will fill the requirements of any apprentice or the shop which does occasional body and fender work. Packed in metal box MB64. 11 PIECES, SHIPPING WEIGHT 29.375 LBS.

FB3B Width 21-7/8" Depth 9-1/4"

Height 5"

Part No	. Description	Part No	. Description
F2 F5 F6 F12 F16 F25	Toe Dolly Wedge Dolly Universal Dolly Hand-Hold Dolly Panel Spoon 14" Flexible File Blade	PH24 PH26	Adjustable File Holder Bumping Hammer Dinging Hammer Bumping Hammer Long Pick Hammer

See Section 8 for Dimensions on Dollies and Spoons.



FB8B — This set includes a complete assortment of body and fender tools for the larger shop or specialist in body and fender work. Packed in metal box MB64. 21 PIECES, SHIPPING WEIGHT 47.313 LBS.

FB8B

Width 21-7/8" Depth 9-1/4" Height 5"

Part No. Description	Part No.	Description
F2 Toe Dolly F3 Heel Dolly F4 Bar Dolly F5 Wedge Dolly F6 Universal Dolly F7 Budd Dolly F10 Hand-Hold Dolly F11 Angle Dolly F12 Hand-Hold Dolly F13 Door Spoon	F15 F16 F25 F31 PH22 PH23 PH24 PH25 PH26 PH31	Body Spoon Panel Spoon 14" Flexible File Blade Adjustable File Holder Bumping Hammer Light Bumping Hammer Dinging Hammer Light Dinging Hammer Bumping Hammer Long Pick Hammer

See Section 8 for Dimensions on Dollies and Spoons.

F26 SET



F26 — This set consists of one F24 file holder and 6 F25 14" flexible "U" tooth files. Packed in cardboard box. 7 PIECES, SHIPPING WEIGHT 5.188 LBS.

Part No.	Description
F24 F25	File Holder 14" Flexible U tooth Files (6)
	1 1105 (0)

SECTION 16-PAGE 19

TOOL SETS - AIR CONDITIONING & REFRIGERATION

RF80B — This kit of refrigeration tools includes most of the sockets and attachments for the man just beginning refrigeration service. Packed in metal box MB16. 20 PIECES, SHIPPING WEIGHT .206 LBS.

Part No. Description V8 1/4" 12 Point Socket V9 9/32" 12 Point Socket V10 5/16" 12 Point Socket V11 11/32" 12 Point Socket V12 3/8" 12 Point Socket V14 7/16" 12 Point Socket V14 7/16" 12 Point Socket V15 Sliding "T" Handle, 4-1/2" V606 Extension, 6" RF2 Valve Stem Socket RF67 Kerotest Socket RF78 Valve Stem Socket RF79 Adapter RF79 Reversible Ratchet				
V9 9/32" 12 Point Socket V10 5/16" 12 Point Socket V11 11/32" 12 Point Socket V12 3/8" 12 Point Socket V14 7/16" 12 Point Socket V730 Sliding "T" Handle, 4-1/2" RF72 Packing Nut Socket RF71 Packing Nut Socket RF72 Packing Nut Socket RF73 Packing Nut Socket RF73 Packing Nut Socket RF74 RF75 RF75 RF76 Kerotest Socket RF76 KEROTEST SOCKET RF77 RF78 Packing Nut Socket RF79 RF79 Adapter	Part No.	Description	Part No.	Description
	V8 V9 V10 V11 V12 V14 V730 V606 RF2	1/4" 12 Point Socket 9/32" 12 Point Socket 5/16" 12 Point Socket 11/32" 12 Point Socket 3/8" 12 Point Socket 7/16" 12 Point Socket Sliding "T" Handle, 4-1/2" Extension, 6" Valve Stem Socket	RF4 RF5 RF6 RF16 RF71 RF72 RF73 RF67 RF49	Valve Stem Socket Valve Stem Socket Packing Nut Socket Adapter

RF81B — This set of refrigeration tools is more complete than the smaller RF80B set. Has all the necessary sockets and attachments plus box end wrenches to enable the serviceman to handle most repairs and adjustments. Packed in metal box MB24, 28 PIECES, SHIPPING WEIGHT 1.815 LBS.

Part No.	Description	Part No.	Description
V8 V9 V10 V11	1/4" 12 Point Socket 9/32" 12 Point Socket 5/16" 12 Point Socket 11/32" 12 Point Socket	RF3 RF4 RF5 RF6	Valve Stem Socket Valve Stem Socket Valve Stem Socket Packing Nut Socket
V12 V14 V730 V606 T606 T16	3/8" 12 Point Socket 7/16" 12 Point Socket Sliding "T" Handle, 4-1/2" Extension, 6" Extension, 6" 1/2" 12 Point Socket	RF16 RF71 RF73 RF67 RF49 RF41 RF45	Packing Nut Socket Packing Nut Socket Packing Nut Socket Rerotest Socket Adapter, 1/4"x1/4" Adapter, 1/4"x3/8" Reversible Ratchet
T18 T20 T730 RF2	9/16" 12 Point Socket 5/8" 12 Point Socket Sliding "T" Handle, 8" Valve Stem Socket	2804 2805 2806C	12 Point Box Wrench 3/8" & 7/16" 1/2" & 9/16" 5/8" & 11/16"

RF66 TUBE BENDING SET

RF66 Tube Bending Set — This complete set of tube benders is a must for the complete tool set. Contains benders for tubing from 1/4" to 5/8". Packed in cardboard box. 6 PIECES, SHIP-PING WEIGHT .216 LBS.

Part No.	Description	Part No.	Description
RF61	Tube Bender, 10" Tube Bender, 10" Tube Bender, 10"	RF64	Tube Bender, 12" Tube Bender, 12" Tube Bender, 12"



RF80B

Width 7-3/4" Depth 3-3/8" Height 1-1/16"



RF81B

Width 8-5/8" Depth 5-15/16" Height 1-1/4"

AUTOMATIC TRANSMISSION TOOLS





BAND ADJUSTING TOOL

Band adjustments can be made in 15 minutes with this tool on Hydramatic, Ford-omatic, Merc-o-matic, Dynaflow, Powerflite, and Powerglide.

27030 FRONT SERVO GAGE

This tool is used to adjust the front band of the hydramatic transmission. In less than 30 minutes, an experienced mechanic can adjust front and rear bands.

ALIGNMENT PILOT PINS 27510—27520—27530—27540

Proper alignment of bolt holes saves valuable time when installing transmissions.

(TWO EACH PINS)

27090 HUB RETAINING BRACKET

Holds rear clutch hub in place, thus assuring proper installation with minimum time and effort.

27370 GOVERNOR SLEEVE ALIGNER

Assures proper alignment of governor when assembling the transmission.

27430 LIFTING TOOL

Designed basically to enable the mechanic to lift the clutch assembly without danger of injury.

27020 BAND ADJUSTING GAGE

Used in conjunction with a TDR50-I Torque Wrench to tighten adjusting screws on Ford-o-matic and Merc-o-matic.

27040 REAR SERVO GAGE

BONNEY

A Bonney tool used to adjust the rear servo on the hydramatic transmission.

27190 THROTTLE LINKAGE PINS (3)

Used to make linkage adjustments and substitute as alignment pins. Takes the "guesswork" out of difficult installation jobs.

27110 SEAL INSTALLER

This Bonney tool is designed to protect the reverse piston outer seal when installing the piston in the cylinder.

27340 PARALLEL JAW PLIER

The unique design of these pliers enables the jaws to remain parallel when removing snap rings.

27240 THROTTLE PRESSURE ADJUSTMENT WRENCH

Used in conjunction with the oil pressure gage (#27460) for accurate adjustment.



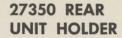






27380 OIL DELIVERY SLEEVE RING COMPRESSOR

Prevents breakage of front clutch unit in assembly by compressing the oil seal rings on the oil delivery sleeve.



Prevents rotation of the rear unit when loosening or tightening bolts. Fits over bolt heads and holds unit in place.



27360 MAINSHAFT "END-PLAY" GUIDE

An essential tool for checking end-play of the transmission.

27460 OIL PRESSURE GAGE

Large easy-to-read, 3-1/2" dial face for greater accuracy in setting oil pressures on all automatic transmissions.

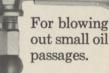


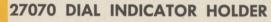
27050 CLUTCH SPRING COMPRESSOR 27330 BLOW GUN



Another "universal" tool used to compress clutch springs in various transmissions.

A really handy tool in overhaul work.

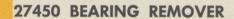




This one rod takes the place of two featured by some manufacturers. Another Bonney "universal" tool.

27550 TORQUE WRENCH EXTENSION

Used in conjunction with the TDR50-I torque wrench to enable easy adjustment of front band from under car.



Makes bearing removal safe and easy. Also handy for removing snap rings from Powerglide and Dynaflow transmissions.

27470 TORUS COVER HUB CHECKING FIXTURE

This tool fits all models. Used in conjunction with a dial indicator.

Other tools necessary to perform adjustment and repair! Soft face hammer PH20—sockets for drain plugs (TH10 and TH14) plus torque wrenches TDR 50I (50 inch pound), TDR 3001 (300 inch pound).

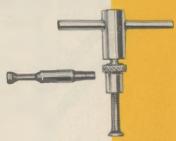


AUTOMATIC TRANSMISSION TOOLS



27080 SLEEVE REMOVER

Primarily intended for removing the oil delivery sleeve on Ford-o-matic. With the added fitting, the mechanic can also remove the line exhaust valve sleeve on hydramatic transmission.

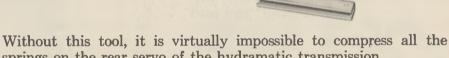


TH14 SINGLE HEXAGON BONNEY SOCKET

With this specially designed six-point socket, drain plugs and aluminum fittings can be removed with little danger of damage.

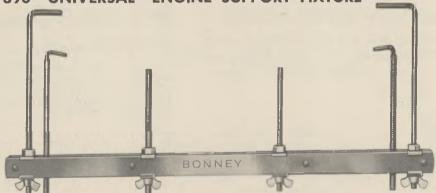


27440 REAR SERVO SPRING COMPRESSOR



springs on the rear servo of the hydramatic transmission.

27390 "UNIVERSAL" ENGINE SUPPORT FIXTURE



The small shop will benefit greatly from the use of this fixture, allowing the car to be moved about after the transmission is removed.

FOR MORE INFORMATION...

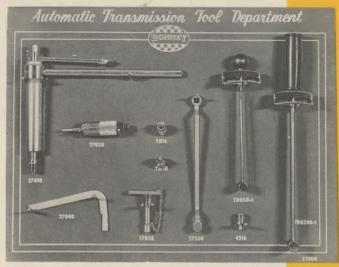
For complete information on any of the tools mentioned, write for catalog ATT which fully explains the operation of each tool.



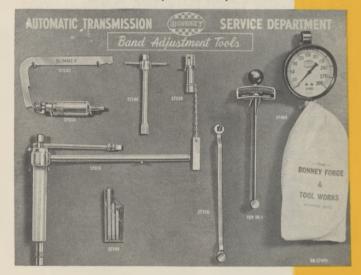
Illustrated on this page are the four (4) selections of automatic transmission tools offered by Bonney. These assortments allow the mechanic an opportunity to build his set of tools or start with the complete set shown on the large board (27480) below.

Most popular for the average mechanic is the 27600 board which offers the basic tools plus drain plug sockets and two sizes of torque wrenches (50 inch pound and 300 inch pound).

The smallest board below (27495) is recommended for the service station or small garage specializing in minor adjustments only. All boards are 5/8 inch plywood, painted red with hooks furnished.



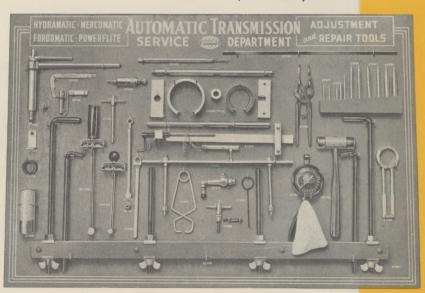
27600 (18" x 24")



27490 (18" x 24")



27495 (12" x 12")



27480 (48" x 32")



METAL BOXES

All of these metal boxes are made of strong, heavy gage sheet metal finished in attractive Bonney red "crackle" enamel. All given measurements are outside diameter. All metal boxes are 22 gage cold rolled steel with the exception of MB60 which is 20 gage. The bottom of each box is of a slightly heavier gage for added strength.

MB8 tool box

BONNEY

Featuring a button catch — no dividers.

WIDTH 4-7/8" DEPTH 2-3/8" HEIGHT 1' WEIGHT LBS. .297

MB12 tool box

This box has a button catch and a divider.

WIDTH 6-1/2"

DEPTH 4-13/16" WEIGHT LBS. .844 HEIGHT 1-3/16"

MB16 tool box

Features a button catch and a divider.

WIDTH 7-3/4"

DEPTH 3-3/8" WEIGHT LBS. .812

HEIGHT 1-1/16"

MB20 tool box

Features a button catch and contains a divider.

WIDTH 8-1/2"

DEPTH 4"

HEIGHT 1-1/2"

WEIGHT LBS. .812

MB24 tool box

This box has a button catch and several dividers.

WIDTH 8-5/8"

DEPTH 5-15/16"

HEIGHT 1-1/4"

WEIGHT LBS. 1.562

MB36 tool box

Features a button catch and a divider.

DEPTH 3"

HEIGHT 1-7/8"

WEIGHT LBS. 1.312

SECTION 18-PAGE 1





MB40 tool box

Features a trunk catch and contains a divider.

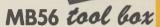
WIDTH 18-3/8" DEPTH 2-3/4" HEIGHT 1-7/8" WEIGHT LBS. 2.062

MB44 tool box

It has a trunk catch, top carrying handle and contains a divider.

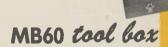
WIDTH 18-1/4"

DEPTH 4-5/8" WEIGHT LBS. 2.719 HEIGHT 1-5/8"



This box has two (2) trunk catches, side carrying handle and contains a divider.

WIDTH 20-7/16" DEPTH 8-3/8" HEIGHT 2-1/4" WEIGHT LBS. 4.875



This box has a padlock hasp, two (2) trunk catches, top carrying handle and has a divided sliding tray 21-3/8" wide, 4" deep and 15/16" high. (MB60-1) This is the same box as MB64 with (MB60-1) tray.

WIDTH 21-7/8" DEPTH 9-1/4" HEIGHT 5" WEIGHT LBS. 10.406



Featuring a padlock hasp, two (2) trunk catches and top carrying handle.

WIDTH 21-7/8" DEPTH 9-1/4" HEIGHT 5" WEIGHT LBS. 8.750

MB68 tool box

This box has a padlock hasp, two (2) trunk catches, top carrying handle and contains 2 dividers.

This is the MB64 box with removable MB68-1 and MB68-2 dividers.

WIDTH 21-7/8" DEPTH 9-1/4" HEIGHT 5" WEIGHT LBS. 9.344



TOOL BOXES - CABINETS - CHESTS - ROLLS



Bonney offers a complete line of heavy duty cabinets and chests designed to hold an assortment of tools. All drawers are of reinforced construction to assure long, dependable service. Handles and hasps are chrome plated to add beauty and durability.



MB82 CHEST

The top unit is the Bonney Chest (MB82). Six-drawer unit with convenient TOTE TRAY for carrying tools to the job. Special features include reinforced panels with full length burglar-proof piano hinges. Heavy gage metal used throughout. In addition, full length drawers, heavy channel type corners and sliderun drawers are incorporated. Panel folds down over front, locking drawers in place.

MB80 "GO-BETWEEN"

This new unit (MB80) is designed especially for insertion between the roller cabinet and either of the chests (with unique locking device to hold both units in place). This gives the mechanic three additional drawers. Heavy duty construction incorporated throughout.

CC15 ROLLER CABINET

The (CC15) Roller Cabinet has all the special features found in other units plus many extras. Top locking feature eliminates stooping for access to lock. Large full swivel casters with rubber tires allow the unit to roll easily under full loads. Side handle shown on other page enables mechanic to pull unit with ease.

On the opposite page, you will see the MB76 Chest, a smaller substitute for the MB82. Has two large drawers plus handy TOTE TRAY. Top folds down over front and locks entire unit. All of the special features such as hinges, slides, etc., found in the other units are incorporated in this Chest.

NEW FINISH!

The outstanding feature of all the units on this sheet is the new ACRYLIC FINISH which allows easy cleaning of units and assures longer lasting appearance. Less chance of color fade and collection of grease, oil and other foreign matter.

- HEAVY GAGE STEEL IN ALL UNITS
- TUMBLER LOCKS FOR SECURITY
- PAINTED RED ACRYLIC FINISH
- EASY GLIDE DRAWER SUSPENSION
- ALL DRAWERS REINFORCED CONSTRUCTION



TOOL BOXES - CABINETS - CHESTS - ROLLS

MB-76 (2-DRAWER) CHEST

Width of cabinet—less handles—22-23/32"

Depth of cabinet—10-3/32"

Height of cabinet—10-1/16"

Top drawer—20-1/4" wide—8-7/8" deep—2-1/2" high

Bottom drawer—20-1/4" wide—8-7/8" deep—3-7/16" high

Shipping weight—36-1/2 lbs.



MB-80 (3-DRAWER) CHEST

Width of cabinet—26"

Height of cabinet—9-1/2"

Depth of cabinet—12"

- 1 drawer—23-7/8" wide—10-1/2" deep—3-1/4" high
- 2 drawers each measuring 23-7/8" wide—10-1/2" deep—1-3/4" high

Shipping weight—37 lbs.



Width of cabinet—25-15/16"

Height of cabinet—14-13/32"

Depth of cabinet—12-1/8"

- 3 drawers each measuring 7-1/4" wide—10-9/16" deep—1-3/4" high
- 2 drawers each measuring 23-13/16" wide— 10-9/16" deep—1-3/4" high

Bottom drawer—23-13/16" wide—10-9/16" deep—3-3/16" high

Shipping weight—65 lbs.



CC-15 ROLLER CABINET

Height-31-3/4"

Width of cabinet less handles—26-3/8"

Depth of cabinet less handles—18-1/4"

3 drawers each measuring 21-1/4" wide—17-1/2" deep—4" high

Compartment—26" wide—17" deep—10-1/2" high Shipping weight—100 lbs.







ROLLS AND ENVELOPES

Made of strong oil-resistant red plastic trimmed in black with black tie tapes or button snaps. Each has transparent plastic pockets for best visibility and easy access to tools.

LR5 CLEAR PLASTIC ENVELOPE

Has fold-over flap with snap button fastener.

WIDTH 5-1/2" HEIGHT (CAPACITY) 2-3/4" WEIGHT LBS. .032



LR8 PLASTIC ROLL

Made with fold-over flap with tie tapes. Has four (4) pockets.

WIDTH 3-7/8" HEIGHT (CAPACITY) 4-1/4" WEIGHT LBS. .032



LR12 PLASTIC ENVELOPE

This roll has three (3) pockets, fold-over flap with double snap button fasteners.

WIDTH 7"

HEIGHT (CAPACITY) 6"

WEIGHT LBS. .047



LR24 PLASTIC ROLL

Has five (5) plastic pockets and tie tapes.

WIDTH 5-3/4" HEIGHT (CAPACITY) 5" WEIGHT LBS. .062

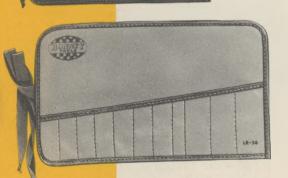


LR28 PLASTIC ROLL

This roll features nine (9) pockets with fold-over flap and tie tapes.

WIDTH 9"

HEIGHT (CAPACITY) 5-1/4" WEIGHT LBS. .062



LR36 PLASTIC ROLL

Has eleven (11) pockets with fold-over flap and tie tapes.

WIDTH 10-3/8" HEIGHT (CAPACITY) 6" WEIGHT LBS. .047



LR56 PLASTIC ROLL

Featuring six (6) pockets with fold-over flap and tie tapes.

WIDTH 11-5/8"

HEIGHT (CAPACITY) 13"

WEIGHT LBS. .156





LR70 PLASTIC ROLL

Has five (5) pockets with fold-over flap with tie tapes.

WIDTH 7-1/2" HEIGHT (CAPACITY) 9-5/8" WEIGHT LBS. .093



This roll features five (5) plastic pockets and fold-over flap with tie tapes.

WIDTH 7-1/2"

HEIGHT (CAPACITY) 12-1/16" WEIGHT LBS. .125





LR80 PLASTIC ROLL

Has seven (7) plastic pockets, fold-over flaps and tie tapes.

WIDTH 10-1/4" HEIGHT (CAPACITY) 13-1/4" WEIGHT LBS. .031

LR84 PLASTIC ROLL

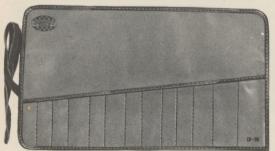
Features eight (8) pockets, fold-over flap and tie tape.

WIDTH 12"

HEIGHT (CAPACITY) 12"

WEIGHT LBS. .187





LR96 PLASTIC ROLL

Here is a large roll with thirteen (13) pockets, fold-over flap and tie tapes.

WIDTH 17-1/4" HEIGHT (CAPACITY) 9-5/8" WEIGHT LBS. .125

LR97 PLASTIC ROLL

Contains five (5) pockets, flap and tie tapes.

WIDTH 12¹/₄"

WEIGHT (CAPACITY) 14¹/₄"

WEIGHT LBS. .156



TECHNICAL INFORMATION



ABUSED TOOLS ARE NOT REPLACEABLE UNDER BONNEY'S GUARANTEE



This illustration depicts a socket which has been improperly used on an impact gun. These sockets are designed for a specific use as hand tools and were not intended for use on impact guns or nut runners. The highly repeated blows imparted by an impact gun subject these sockets to severe stresses for which they were not intended and the cracks in these sockets were not caused by defective material or workmanship, but by ABUSE! The drive square is the characteristic which identifies an abused socket which has been used on an impact gun. Noting the drive square, in the above illustration, it is evident that the corners have been rounded off and the metal on the sides of the square have been peened up over the edge, causing a rounded effect. This can be seen by the highlights in the photograph. If these sockets had been broken from a high stress imparted by a static torque the metal would not have been moved out of the square, but the socket would have simply split up the side.



The illustration above shows a hinge handle which has been abused. Various sharp nicks and dents in the handle show that the handle was hammered on to break loose or tighten a nut. This has the same effect on a tool as an impact gun creating high stresses throughout the tool. The hinge handle illustrated above was not broken because of poor workmanship or material, but simply by ABUSE!



The screwdriver illustrated above with the broken blade was not caused by defective workmanship or material, but by excessive stress being put on the square shank of the screwdriver with a wrench. Nicks and sharp burrs in the shank were caused by a wrench. Although a square shank screwdriver or one with a hexagon or square bolster invites the use of a wrench for loosening tight screws, it must be remembered that the blades were not designed to take this excessive force! Tool users should practice extreme caution in using any screwdriver in this manner. All factors in this case point to extreme abuse in using said tool, not to defect in workmanship or materials.



TECHNICAL INFORMATION

American Standard Taper Pipe Threads

For all dimensions see corresponding reference letters in table.

Angle between sides of thread is 60 degrees. Taper of thread, on diameter, is 3/4 inch per foot.

The basic thread depth is 0.8 X pitch of thread and the crest and root are truncated an amount equal to 0.033 X pitch, excepting 8 threads per inch which have a basic depth of 0.788 X pitch, and are truncated 0.045 X pitch at the crest and 0.033 X pitch at the root.

ĺ	Pipe	Size		Pitch I	Diameter		Length			-
			No.			Length	of			
	Nom-		of	At	At	of	Hand-		Depth	
	inal	Out-	Threads	End of	End of	Effec-	tight	Imper-	of	ě
	Pipe	side	per	External	Internal	tive	Engage-	fect	Threads	E
	Size	Diam.	Inch	Thread	Thread	Thread	ment	Threads	(Max.)	
j		В		F	E	С	D		K	•
ı	1/8	0.405	27	0.36351	0.37476	0.2638	0.180	0.1285	0.02963	
	1/4	0.540	18	0.47739	0.48989	0.4018	0.200	0.1928	0.04444	
	3/8	0.675	18	0.61201	0.62701	0.4078	0.240	0.1928	0.04444	
	1/2	0.840	14	0.75843	0.75843	0.5337	0.320	0.2478	0.05714	ŧ
	3/4	1.050	14	0.96768	0.98887	0.5457	0.339	0.2478	0.05714	
	1	1.315	11-1/2	1.21363	1.23863	0.6828	0.400	0.3017	0.06957	
	1-1/4	1.660	11-1/2	1.55713	1.58338	0.7068	0.420	0.3017	0.06957	
	1-1/2	1.900	11-1/2	1.79609	1.82234	0.7235	0.420	0.3017	0.06957	
	2	2.375	11-1/2	2.26902	2.29627	0.7565	0.436	0.3017	0.06957	
	2-1/2	2.875	8	2.71953	2.76216	1.1375	0.682	0.4337	0.09850	
	3	3.500	8	3.34063	3.38850	1.2000	0.766	0.4337	0.09850	
	3-1/2	4.000	8	3.83750	3.88881	1.2500	0.821	0.4337	0.09850	
	4	4.500	8	4.33438	4.38713	1.3000	0.844	0.4337	0.09850	
	5	5.563	8	5.39073	5.44929	1.4063	0.937	0.4337	0.09850	
	6	6.625	8	6.44609	6.50597	1.5125	0.958	0.4337	0.09850	
	8	8.625	8	8.43359	8.50003	1.7125	1.063	0.4337	0.09850	
	10	10.750	8	10.54531	10.62094	1.9250	1.210	0.4337	0.09850	
	12	12.750	8	12.53281	12.61781	2.1250	1.360	0.4337	0.09850	
	14 OD	14.000	8	13.77500	13.87263	2.2500	1.562	0.4337	0.09850	
	16 OD	16.000	8	15.76250	15.87575	2.4500	1.812	0.4337	0.09850	
	18 OD	18.000	8	17.75000	17.87500	2.6500	2.000	0.4337	0.09850	
	20 OD	20.000	8	19.73750	19.87031	2.8500	2.125	0.4337	0.09850	
	24 OD	24.000	8	23.71250	23.86094	3.2500	2.375	0.4337	0.09850	

TAP AND CLEARANCE DRILLS FOR STANDARD MACHINE SCREWS

	FINE THREADS					COA	RSE TH	READS	
Screw	Thds.	Тар	Clearan	ce Hole	Screw	Thds.	Tap	Clearan	ce Hole
No. or	per	Drill	Drill	Size	No. or	per	Drill	Drill	Size
Diam.	Ínch	Size	Close	Free	Diam.	Inch	Size	Close	Free
0	80	3/64	52	50	1	64	53	48	46
1	72	53	48	46	2	56	50	43	41
2	64	50	43	41	3	48	47	37	35
3	56	45	37	35	4	40	43	32	30
4	48	42	32	30	5	40	38	30	29
5	44	37	30	29	6	32	36	27	25
6	40	33	27	25	8	32	29	18	16
8	36	29	18	16	10	24	25	9	7
10	32	21	9	7	12	24	16	2	i
12	28	14	2 F	н	1/4	20	7	F	H
1/4	28	3	P P		5/16	18	F	P	
5/16	24 24	0	W	Q X	3/8	16	5/16	w	Q X
$\begin{array}{c} 3/8 \\ 7/16 \end{array}$	20	25/64	29/64	15/32	7/16	14	11	29/64	15/32
1/2	20	29/64	33/64	$\frac{13}{32}$	1/2	13	27/64	$\frac{23}{64}$	17/32
-/-		_0/01							



ERRATA SHEET

This sheet is for the convenience of those who desire an up-to-date catalog at all times. When an error or addition is discovered—fill in the information on one of these lines and mark the line number in the proper place in the catalog. This will give an easy and quick reference for future questions on the same item.

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